Translation (March 24, 1939) from 11 Biblica. Commentarie ad rem Biblican scientifice investigandam Quater in anno editi A Pontificio instituto Biblico Val/13. Roma (101) Piazza della Pilotta 35. 1932. 88228-232 Call Number 738410.137 Vol 13, Fase, 2, 1932: " When P. Pilate Procurator?" The also bravalated Neuve Arbeiten uber das dahum der Kreugigung christi" in Same volume, pp 93-10,3

I When was Pilate Procurator of Judea? Since Philo places before us (indeed) a rich list of sins of Pilate but does not add any chronological facts or proofs, we are dependent upon the report of Josephers. [ note 1, p. 228: Regatio ad Gainen 38, 299-304, Cohn-Reiter 6,210.7 He reports of a ten-year period in office and of the removal of the hord's judge by Vitellies, the legate of Syria, in such a minute way that the general opinion was formed that lilate had been in office until into the year 36, thus resulting in the construction, that his administrat ion began in the year 26. 3 Note 2, p. 228: A 18, 4, 2 m 89: Séxa ÉTETIT State ( pas ém lou Saias. 7

[Note 3, p. 228: Schiver, 1, 487 f.; J. Felten, neut. Zeitgeschichte 1, 172, note 4. 7 in recent years arose strong opposition: Pilate, it is asserted, was deposed until 37, so at the earliest he has entered Judea 27. To that effect expressed themselves E. Dobschütz [ note 4, p. 228: Prot. Realenzyelopädie3 15 (1904) 398.], Friedr. Westberg 5 [ note 5, p. 228: Biblische Chronologie 642] G. Bedeus von Scharberg Motel, p. 228: Chronologie des hebens Jesu, p. 35-38.187. Jand at last R. Hennig Note 7, p. 228: To the Question About Christ's day of death" in Astronom.

Nachrichten (news) No. 5789, 242 (1931 II) report on the two journeys of the legate Vitellius\_ who had the right of supervision over la lestice -

3/ from Syria to Jerusalem absolutely demands (assumes I definitely?) that he had deposed Pilate as early as 36; in accordance with this plain report is to be explained the short note on Pilate; journey to Rome, not in the reverse. // [note 8, p. 228: A 18, 4, 2 n. 89.] The order of events before the first Jenesalem trip of the legate and during the same is according to Josephus as follows: [ Note 9, p. 228: A, 18, 4, 2 s. n. 88-95. ] accusations (or legal proceedings?) are brought against Pilate to Vitellius in Syria; the latter removes him of his office for it, appoints a delegate or successor (Etryce) nThs), his "friend" i. E. the subaltern Marcelly and sends him to Rome. Upon that Vitellius himself

If goes to Jerusalem " on the occasion of a fealst called Pascha" (n.90), shows himself gracious (tencolent!) replaces the highpriest Caiphas ley Jonathan, the son of Annas, and returns to Antiochia [ note! p. 229: n.95] The second journey of the legate into the holy city is brought in connection with the military expedition Vitellius was to undertake upon Tilerius' orders against the Aval king Arethas (W.) 2 Note 2, p 229: A18, 5,3 m. 120-4.] He leaves his two legions in Ptolomais and goes to Jerusalen just prior to the feast. " He arrived for three days of it ( ris in a marmoas... To ris in prepas Taby DiatpiByr Troisitais)", during which he again took away from Jonathan the rank of a highforiest.

I On the fourth day be received a letter with the announcement of Tiberius death, upon which he took the oath made the people swear allegiance to Gains (Caligula). Then Vitelius discontinued the barely searcely started military soldiers back to their winter quarters. & Thote 4, p. 229: n. 124. J./ second visit took place in the year 37, soon after the death of the emperor on March 16 of same year. If now the Parsableast of prior to which Pilate was deposed, was the Passah of 37, as stated by Dobschirtz and the other explorers (investigators } then the second journey must have been made on Pentecost. Easter we must set on April 20.5 | Note 5, p. 229: The conjunction

1 according to Sinzel (Chronologie 2,548) took place on 14 3,97, "i.e. on April 4, 11h 03. Greenwich time, with the correction of 9 minutes Mengelauer, Astronom. Chronologie 1, 81-85; 2,9) 10 h 54, accord. to Jenusalem time 13 h 17. Naturally the new light the next evening ! Twas not visible; all the more surely it could be observed the next evening, April 5; thus the 1. Hisan fell on Aprillo, the 15 on April 20.7 Easter in the previous mouth, March 22, is out on account of climatic conditions, still, here in spite of it is to be assumed as though somehow it could come into consideration. Then Pentecost must be assumed to have been on June 9 for the unlikely other assumption May 13), It is more however completely quite impossible that Digitized by the Center for Adventist Research

Witellies received the news of Tilerius' death only on one of these days, on June 12 or May 16. The intelligenceservice (information service?) for the governors of the Roman empire were very well organized. From the examples gathered by Friedlander Moteb, pring; Sittengeschichte Roms 82, 26-33.7 it is evident that official communications could come from Rome to Antioch, in about a month foutside the time of the "mare clausum", or about 16 weeks from November 11 to march 50 [ note 1, p. 230: Vegetus 4.39.7 where the only commander of legions of the orient hat to be informed as early as possible of the change in the empire. For the news of Caligula's death ( Jan. 24, 41) sent in winter, it took

two months, for a message sent prior to it it took about three months due to especially strong gales. hote 2, p 230. A further argument against the assumption the second Sestival was Pentecost is the fact that the festivities lasted several days while Pentecost was celebrated but one day, the fiftieth after the Passoversabbat 3 Mote 3, p 230: Siphra in her. 23: 15-21, 189a; J. Benzinger Rortleitner, Archeolologia 2 p. 268; J. Benzinger 386; W. Nowaek, Archaologie 2, 178. 7 Therefore the second journey of the legate ensued on Easter 37. In that case (of necessity) his first journey must belong to the previous year, because the Jewish calendar knows of no great fedst before Easter; Purine is no religious festival. Very much less can the removal of Pilate be transferred postponed to 37. Then we have it is true, an insoluble difficulty in Josephine text How could

Pilate, if he having been deposed at Easter of the year 36 and sent to Rome "arrive in the capital only after the death of Tilerius"? For he was sent there to give vender account, why this delay? Of course, we do not know, whether the regulation mentioned by Dio Cassius Mote 4, p. 230: 53, 16, 67 according to which - that the leaving fresigning removed? governors had to be in Rome within three months - existed already at that time. But the difficulty exists, and it is striking strange conspicuous? that for instance Schurer (5/ Note 5, p. 230! 13,492 Note 131; "Pilate allowed himself about a year's time It took Vilate about a year for the journey from Judea to Rome". I says Inot a word to rolve it. In my opinion there is but one way out: Josephus seems to have Digitized by the Center for Adventist Research

If gotten mixed up in designating the first instead of the second as the Passalufestival. Then the first would have to be looked on forobably was feast of tabemacles By assuming this This would completely explain why Pilate arrived in Rome only after March 16,37: because at that time (end of September - October) navigation " was no more safe" (Acts 27:9) according to the chapter 27 of Acts) so important to classical nautical science Note 1, p. 231: Vegetus 1, C: post hoc tempes (10 Cal. Oct.) " incerta vavigatio est." Pilate with his quilty conscience could easily find a pretext to portpone the journey which was awkward for to him and go only after march in favour of the assumption that the first feast was that of the Tabernacles?

Whe then appointed and during the second journey removed higheriest Jonathan according to his own avowal (confession; word?) has worn but once the holy garment, I for he refused the reinstalment to this rank offered lim by Herod Agrippa I with the explanation: it suffices him to have worn once the garment" (2). [note 2, p.231: A19, 6,1 n. 314: ana ivous stofishor ispor aprovinar. This seems to suggest, that Jonathan received his post at that high festival which immediately preceded Passah 37, i.e. the feast of the Tabernacles ! 36. statements about the duration of Pilate's and his predecessors Valerius bratus' term office the difficulty existing in von bolocling chronology is lacking. Pilate "has spent ten years in Judia" 3 [ Note 3, p. 231: A 18, 4, 2 n. 89.] and his

predecessor Valerius Gratus "eleven years " ( ) [ Note 4, p. 231: A18, 2, 2 n. 35.7 Now we must set the appointment of the latter, which Josephus expressly ascribes to Tiberius in the beginning of his righ because the governors appointed by emperor Augustus had lost their mandate through his death and received a successor by Tiberius. [ Note 5, p. 231: A18, 2, 2 m 33.] In the autumn of 14 there was no such change because Tiberius took over actual executive power only October 13. Thus Valerius Gratus began his office (arrended to the throne?) in the year 15, Pilate his eleven years later, 26, and so no gap is to be found, as it would be the case in the other way of reakoning. (16-27; 27-37 or 15-26; 27-37). / The last reason for Pilate's removal in the year 376 [Note 6, p. 231: Westlerg, \$. 64; Bedeus p. 36. I is that according to Josephus Digitized by the Center for Adventist Research

Tilerius sent "only two governors, bratus and Pilate, to Judea "D" [ Note 7. p. 231: A 18, 6, 5 m 177. 7 Now if marcellus placed by Vitaleius in place of Pilate [ Note 8, p. 231: A 18, 4, 2 m. 89, 7 had started in his office as early as 36, then his final appointment by the emperor I would have to had come during the reign of Tiberius and consequently he would have had appointed three governors - Against this it can only be said that the two marullus, present many an unsolved problem to us. Their names in itself are so similar that the opinion has been stated, both are but one person Mote 1, p. 232: F. Westberg p. 64; J. Felten, Neut. Zeitgeschichte 21, 177 Note 1. 7 Both are mentioned but once each and have unusual titles: Marcellus is called ETTIGEENTYS, Marullers Digitized of the Genter for Adventist Research 232;

A18, 4.2; 6,10 n. 89 237. J. Not the least thing is reported of their administrative work, not a word about their recall (being recalled?). Has Marcellus, to begin with, administered Palestine as a substit. ute until he was confirmed by Caligula and then be became known to Jophus as Marcullus? / Of what importance the date of the deposition of Pilate is for New Testament Chronology has already been pointed out on page 103. Assording to luke 3:1, Pilate was already in office when John the Baplist began his sermon on repentance. how whoever accepts the year 30 as the year of the hord's death, which according to the reasons given p.97-100 is a very probable if not the most likely assumption - and in addition adheres to

the three-year-system, must place the first Passablestival of the hord's public life into the year 27 and the beginning of the Baptists preaching at the latest in the fall of the previous year 26, when Pilate entered his province. Since x the change of the governor about in June, there is no difficulty. [ hote 3, p 232: Fio Cassius 57, 14,5: Claudius was the one who demanded an earlier departure. Heid. 60, 11,6; 17,3 compare A Deissmann Vaulus 172 on; 249 and on J. It is different with the widely spread, opinion assumption according to which the conrular year of the Generica 29 AD is considered as the year of the hord's death [Note 4, p 232: So still Villosladas, Digitized by the Center for Adventist Research

10 (1930) 10-15 ]. Then the first Passah festival (John 2:13) would have to be set as early as in 26 and the forerunaer would have begun his serman as early as in 25. This is directly excluded by the text in huke 3:1 according to which we must accept the following order of events: Beginning of Pilate's administration of Johns, preaching and than the beginning of the hord's ministry. U. Holymeister.

translation from sexueur röttingen Announcements on Learned Matters under the supervision of the Royal Soc. of Sciences Nov. 11, 1758, Leipsig. p. 1265) Among the more important books which have come out This year belongs the complete Biblical treatise on the easter lamb & the last easter lambirday of christ, especially as His day of death, by Mr. Baccalaurei & Deacon at Tausha Joh. Fridr. Frisch. After so many controversies of the theologians (it is) drawn up in a decisive manner. (Pullishers Breitleoff: 3 Alph + 4 folios, besides, 4 folios of preface octave.) We believe this praise will not suffer but rather gain in defendability in the eyes of not too obedient (docile?) readers if when! with the good things Soints Digitized by the Center for Adventist Research [mdicate?] 1.1265 cont.d the noticeable & frequent mistables of the book: though we dore not hope that Mr. V. - after the praise he gives to his book, and on the title page at that, & in view of his temperament of expressions towards with regard to other learned men (scientists) as noticed by us in this & other of his writings - will interpret kindly our reproof. Whoever is looking for samples with what consideration he writes of himself, need but read pp. 302, 445, 502, 508, 4 of supposed or real mistakes of other tearned men scholars, which here are called distortions (nisrepresentat ions) or otherwise most unlind names, pp. 302, 304, 428, 445, 502, Digitized by the Center for Adventist Records

p. 1265-cont'd The book really represents the fruits of much labour + of a careful investigation free p.126. - from the prejudice to (for) authority: in rome regards where, according to would reliable opinion, most rebolars would not the wrong way, he is on the right track, for instance, when he asserts in Exod. 12:11 is is in no wise probabilited to sit down When eating the easter lamb, 4 in Luke 22:14 there is no contradiction with that text ( see p. 107, 109, 592); furthermore, the regulations (laws) Exed. XII are not only for the first but also for all following easter feasts, 4 p. 118 be ascribes the Killing of the first-born not to an imaginary destroying angel but to God Himself: though he goes one step faither than we would dore, when hoigiffed interfer Adventist Research it to the

Son of sod in particular. As to the Helerew Antiquities he does not have much faith in the, to be sure, all too young 4 unreliable Talmudic 4 Rablinical testimonies which put most of their teachers in exact: contradiction to the rules usually otherwise prescribed by the logic of probabilities & observed by careful historians: though he seems to carry in itself landable unbelief to the extent that it becomes a mistake, yet he does not shrink from setting of the Talund as a witness if advantageous to him, for inst, was crusified before the feast. The main clause (rubjert? sentence?) of his book, as given by res on p. 1272, is really new & has much inits favour: but whether, after Digitized by the Center for Adventist Research

theologians, it is expressed (worded? in a decisive manner thus representing so to speak, a final decision from which no further appeal is allowed on account of the great clarity of truth & obvious agreement with the Holy Scriptures, will have to be left to the slowly incoming voices from the world of scholars. This main subject reveals a loudable care to examine the writings of those who have written on the day of the easter lamb; 4 Mr. 7. now 4 then gives a hints that he endeavored not to leave anything nuread & uninvestigated though he did P. 126) not always find it advisable to name the works from with which he differs. The reasons for his contioness are given on Rp. 10 + 43 of the preface: where hr. V. did not forbears from using the strong words, persecution, slander, abuse. On the other hand, as to other matters yet also justaining to the Digitized by the Center for Adventist Research

267 - cont. passover, we find his book-reading is somewhat limited & excludes partly the best of the more recent of their names we rather find the one of Goussets. As to Edd. 12:13 it seems unknown to him, that the meaning of the nown 7705 (Parsa) is not made up the way he others assume, & that Schulters has something on that which at least, demander an investigation. We merely neution here Schultens: to quote, the mere conjectures of Vitninga on this word, or to controvert naturally we shall expect of lim. This is a sample; however, we find reveral of such dis unpleasant gaps of being wellread which should hardly be expected in a strong book on so sperific a matter. Digitized by the Center for Adventist Research

In matters on Egypt - be that on idolatry or geography - no use is made of Jablouski, not even the short notes of the Hallie Helorew Bibel are looked up when some lacking could have been substituted from it. We believe that no student of the Scriptures could afford to do without the only Bible with a number of different manners (ways) of reading (versions?); but Mr. F. is not concerned with the different versions & even where Kri of Ethib, he chooses without remembering the others or even giving a hint to the reader that the text has yet another version. 2 chron. 35:3 may elucidate this. He is an offonent of Spencer who with much that is unfounded has much trutto that is true; be is contrary

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to the method to trace the sacred costerns of the Paraelites to other older manners & customs of peoples among whom they lived, be that imitations as ordered by God or as contrasts. Most frequently to is used the English Biblework (commentary?) with notes of Teller & Dietelmaier: its translation of The Hebrew text is severely (slarply) criticized, on which occasion Mr. Fr. is very precise (exact, particular!) in small things when the translator has been free issing expressions that do not after the meaning, f. inst, saying instead of, they are to eat the feesh, Ewod. 12:8, he has put; they are to eat the flesh of it. At times a German does not understand his improved translation: p. 144 on this essential (fundamental? integral? vital?) day Cas it reads in the Hebrew ) Irrael went out of Egypt. What is an executing

p 1268 - cont day? Does 5's surely mean being, essence? If we had to translate so literally, somebody else perhaps would write with the same right: on the bone of this day. A certain kind of students of the Singtures meets with emphasis everywhere: Mr. Frisch is of that Rivid. ( see p. 558, 577.) Especially he never forgets to find fault with the English translation if it deffers with the Hebrew accents: making some deductions which would be abolished (cease?) if the ordinary rules are accepted as to the peculiarity of the Helerew manner of distinction (p. 29, 105 cte.) We find the man, who wants take everything from the Bilele, not so well versed in Hebrew as we would like to have him for this undertaking.

There is no thought of the indispensable acquaintance with the other (remaining) oriental languages. It would at at least made him doubt one thing or other he now asserts without fear: for inst., whether D'770 means bitter herbs at all & that therefore God did not presente heres explicitly particularly?) for (with?) the easter lamb? For in the arabic & in the Talmud this is the name of a special kind of herles: Does 270 in Exod 12:9 mean the bowels

including by which he includes

including by which he first allows it

even the fat, which he what the

1269 the Jews, or rather that what the Latins called viscera & Kirgil in the well-known text calls viscera tosta ferent tauronem? Does the emphasis lie in WX 145 (voasted at (on?) the fire) as he looks for it on p.94 i.e. that it was not allowed to have it roasted in the oven? etc. etc. But the reader would faut ifigitized by the Center for Adventist Research

if only they would not concern! main things: as is done with the two words Sceleath + preparation day. " Contrary to the general of, as we still dare to think, wellfounded opinion up to now, Mr. Fr. contends that all seven days I of the easter feast were celebrated (kept?) as Sableaths & work was prohibited on same: in favour of which arbitrary point (theris?)

The wants to apply Exod. 12:16 - no

work is to be done on them - not only to the two days mentioned in the verse, the first & last, but rather to all seven. To confirm this thesis he frequently points out That the evangelists call the day of the easter feast when Christ rose up from the dead, war babbaths, because the whole week all days were Sabbaths (ree. p. 546, 547.) Thus he does not know or keeps silent about it, that Sabbath in itself collectively can mean a week of Mia GaßBattor the first day of the week

Every explanation of the M.T could teach him provided he had not 12 taken it as an error (due to exagerated) This, on his part, no doubt would have been ignorance, for nothing is more common with the Jews & Syrians than to call Sunday, Monday, & Tuesday the first, second, third etc. of the Salbath. It would not be diffund for us to find several hundred I examples; whoever does not know of them probably has not read a Syrian book where week days are named: & it he refers to the polival oaBBatwo, it is not known to him that Sabbata within & outride of the N.T. refeatedly is used as a "plurale tantem". But according to him Acts 20:7 + 1. Cor. 16:2 even Sunday has this name, not p.1270) because it is the first day of the week but because it was celebrated in memory of the first working day among the Parsa - Sabbaths. As to the preparation day (Tapaokevi,) he tries to prove from (with?) this name used by the Center for Adventist Research Jesus was

p. 1270 - cont. not crucified on the first easter \13 day or the 15th of nisan but on the day of the easter-lamb or the 14th which is to supposed to have heen the preparation day for the feast. It first we thought: If only the man, who boarts of his carefulness (conscientions non) in reading the works of others, had read, say, Wetsteinen he would know that Tapa o Kevý or in Syrian & Chaldean
Tapa o Kevý or in Syrian & Chaldean
Tapa o Kevý or in Syrian & Chaldean
Tapa o Kevý
Title proper name of
Tapa o Kevý
Title proper name of
New Jiday
Limself that Jesus dred on Friday he cannot deduct anything else from this name, especially not if it does not the words Tor Trasya are not there, this more complete form of speech can mean the Briday of the Passa - week & thus is of no use to prove his thesis. In case he did not want to believe in Wetsteinen, he merely should have read Syrian book aside from the U.T .: he would have been swamped with examples of this meaning.

p. 1270 - cont that is what we thought 1/4 when we came to p. 905, 906 when we saw, the known explanation (interprelation?) was not unknown to him, & that he does not dony the meaning of the word Trapaskeving but that he merely had withheld it: Just as we had noticed apart from this, it is not customary with lim to present the opinion in its addantageous light he intends to disprove. There he nevely refers to the fact that the evening before easter also is called Trapa 6 KEVY: after that (then?) however, this name is neutral + just as little as it proves against him, it could be used by him as a proof. But with this in some respects nevertheless bucky innovator does not even howe the general Knowledge of Hebrew as is customary to acquire aside detached from the other dialects. Exod 11:4 is suffered not to refer to the coming midnight but to a more distant 4 indefinite one because

p. 1270 - cont. Moses does not say in this midnight (to ugit seems he does 200 20, for 175157 has the Tr of the 6.127 article) but at in plural, at the times of midnight: as though 371477 could not also be the infinitive as commonly explained but necessarily a noun in plural. On p. 89 he concludes (deduces?) from JU Exod. 12:8, that the easter lamb had to be prepared over herbs. Were the other meanings of the preposition so muknown to him. What, objection to the common translation with hitler herles? His new explanations are often based on such grammatical belunders, as can be seen also Exod. 12:46. Thus originate very arbitrary innovations. He conveys an idea of Jewish feasts which is more in keeping with the rules of some preachers on the celebrations of Christian than with the old customs (pp. 138, 139.) According to him the Jews very well could make fire in the

p. 1271 - cont. Ritchen + prepare food despite the texts in Ewood. 16: 23.29, 35:23 where merely fire for backing, the smithy 4 washing (laundry?) is supposed to be forbidden. Morning in Exod. 12:22 is used to serve an hypothesis - as though nothing at all is settled only for the first easter celebration - is the time immediately after midnight, & that in a month when the sun rose only early at 6 o'clock. The golden + silver vessels (retensils!) the Israelites did not borrow from the Egyptians but rather begged them? + because of this authoritative desirion 12:36 TINWIT must not read to borrow ( which rurely it otherwise means in oriental languages, especially in Syrian) but without referring to an example it is supposed to mean merely ex edicto practoris to grant a request. The Irraelites Were not allowed to take a Digitized by the Center for Adventist Research

p. 1271 - cont. good kid & in Ewod. 12:6 it merely reads to take the kid of a sheep out of a mixed flook of sheep & goods, or (according to his canquage) catch it, which rentence he presents almost all the way through in so many words that for passa it was not allowed to take a he-goat (or rame?). This was not clear to us for a long time for my homeland where I come from the word is also p.1272 used for the male sheep. However, his beamon is as queer as the rest of the books. We are still looking for the meaning of his "rimlish" ( perceptible by the senses, physical?) It is used 10-20 times in a meaning (connection?) quite foreign to us. Once he was kind enough to explain it himself by raying a "rimliche" certainty is as much as a appring the thorn Adventis Research certainty

5.1272 - cont. p.606. The easterlamm is begt 4 days, 203 - "schliffige" (3) cakes of ashes, 320 - dear, miserable goods, 521 - to make one more "gramisch" 522 - Jerus bids his bost a good evening not to choose no other day, very likely are common of quite proper ex-pressions at Taucha, but they do not belong into a book! We surely would consider it unfair to mention grammatiz errors mistakes if Mer. Fr. were not accuring other scholars of supposed mistakes in German; simultaneously, his all too pronounced respect for himself gives us the right to tell him of his mistakes: though the liggest among these probably are his biassed conception of the commutative reasons, 4 then certain fencing practices in the art of dialecties. There will be rufficient evidence of these in the Digitized by the Center for Adventist Research Commission

12.1272 - cont. main subject of Mr. Frisch. He claims Jesus at the easter land on the day ordered by God, & simultaneously with the Jews: (which two points he confirms pp. 505, 517, 555 4 in the 5th chapter, with reasons which reems to us uncontestable): Despite this, however, he partook of it on the day before prior to the easter feast and apent the first day of easter in the grave. This statement which will appear to our readers, very contradictory he makes very probable in the following mainer. The first day of leaster came on the 15th of hisdu; the easterland, the was exten on the 14th however, was exten on the 14th (Moses makes both statements plainly + repeatedly) As the Jews start the day with sundown, this cannot he the night between the 14th + 15th as is commonly accepted, for this is named already the 15th Misan, but it must be the starting night of the 14th. To celebrate the . 1273) Lay following this Moses nowhere commanded thus it was a working day.

p. 1273 - cont. Against this also almost uncontestable calculation there are two difficulties which Mr. Fr. has left unto which one; The killing of the laster land, tog was set by Moses on the 14th between the two evenings, which accord to the explanation means between the beginning of the regular cool wind in Talestine that comes up after 4 in the afternoon, & senset: which time without contradiction belongs to the previous day. Mr. Fr. helps himself out in an admitted very natural to way by taking the two y evenings as from sunset & to complete darkness, for then the easter lamb was killed in the night which belonged to the following day transfer the daily lucuing racrifice which also was ordered between the two evenings. to to the beginning of the night. This, as it seems to us, becomes probable also because of the fact that then the morning + evening sacrifice have exactly 12 hours intervale. The Jews, however, are against the two points: We do not willingly accept them as witnesses as to the meaning of the laws of Mores 20 many centuries older, the practice of which has been repeatedly interrupted due to the Babylovelidhe Central of Mittel Search although

p. 1273 - cont. we do pay more attention to them? when it concerns the customs at the time of clist. The other doubtful point not so completely solved, is that in Matth 26; 17 + Marc. 14:12 the disciples who went on the afternoon before the eve of the easter laidel went to Jerusalem to prepare the easter lamb, had received the command for it on the first day of the runleavened break: con= Lequently, the preceding afternoon is reckoned with the following night of is considered together with it as One Day; that is what the ordinary (common?) interpretor wants. Mr. Fr. helps brinself here somewhat heroically The Town Two azonwor is supposed to mean, towards the first day, before the first day. He did not choose, 0.1274) to make it easier for us to agree with him by giving examples of this expression: instead, as proof he refers to the parollel text huke 22:7 for he thinks it is plain that night of nuipa Two agu nor cannot mean, the day of the intervened bread had come, but rather that it was affroaching was about to come.

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So much on the two difficulties. We again come to the main rubject (point!) According to him it should be distinguished between the day of the easter lamb which fell on the 14th 4 the easter feast which lasted through the following ? days from the 15th to the 21st. with it amounted to 8 full days. The day of the easterland was merely a frefaration for it: Therefore Christ's day of death is called the day of preparation by the evangelists, & the pre-Sabbath, ( TTapas KEVY & TTposaBBaTor) & the first day of easter on which Jesus was in the grave, they call a Sabbath.

(The explanation night be correct, however, these texts provide no proof for Jesus surely was crucified on a Friday, properly called Tapas Keon and lay in the grave on the week-Sableath.) Now Joh. XIII: 1 also is clear Before the passa-feast is a circumscription of the day of the earter lamb: John desiribes the easterneal of Christ, whose

1 1274 - cout. speeches continue minterruptedly 3 also from the 13th chapter mitel his arrest so that one cannot think of a day in between 121 this destelopment unravelling by (musoluble?) will stand the in vertigation of the scholars, then is that the greatest ment of the book. We could give no other that would completely satisfy us; & we wish this might be the right one, But having read it only once we have not been able to examine this completely new opinion view not carefully enough in order to dare to decide in favor of it + against all interpreters up to now especially since the one above mentioned difficulty is not yet sufficiently removed philologically.) The day of Clinist's enveifixion cannot have been the first easter day, for this was a Sableath: p.1275 How could the Jews crucify on the Salbath? Even Herod, the half - Jew, in Acts 12:4 had semples to kill Digitized by the Center for Adventing Release, 657.

b.1275 - court. (This does not convince us. It does not say in the cited text that Herod had simples about it. Read it. Besides, accord to Josephi's description, this Serod was a very zealous jew; at least be pretended to be one in order to become popular with the people. Romans crucified Christ was crucified by Ramans who never were ordered to keep easter; in the contrary Herod would have had to use his own soldiers for the execution of Peter.) It was me lawful to leave a man hanging (over) on the Salebath John 19:31: still less he could be hump on that day. p. 913. (This probably is an overhaste. Accord. to Deuter. 22:23 no hanged man could remain on the wood over night: had Jesus not been taken down before Sun-down, he would have had to remain these over night because of the approaching week-Salbath. The night, not the sanctity of the Salbath was stood against the prolonged langing on the wood! Digitized by the Center for Adventist Research

6.1275 - court. Joseph of Arimathia have for the first feast day, nor could any one telse have bought spices. (This doubt is important + up to now not yet completely removed by the interpreters ( eges exegests?) who think differently.) Furthermore it would for book to have his. high feast day descrated by the crucifixion of Christ According to the freface p. 12, it seems as though this proof meant much to Mr. Fr.; with us it counts less because we are not in a position to judge what sins are proper for God to allow or not; on p. 924 Mr. Fr. admits that God allows much evil to happen; but he answers: in that care Lod has His known or mulenown reasons which is not so here because one does know any reasons to point out. Likewise he believes the easter-Sabbath is no befitting? for Christ's rest in the grave that hit could serve as a proof for his oficion; furthermore, the easterp. 1276. lamb Digitized by the Center for Adventist Research

consequently the autitype of the 14th laster land had to die on the 14th and not on the 15th. These by us abbreviated new apinions are presented p. 1276 by Mir. Fr. with exceedingly frequent repetitions & we cannot count how often we read the same froof for the 14th day. We do not condemn this: for with many readers repetition accomplish more than proof. It is not fair to our interpreters p. 57.58 where it is stated that they set the slaying of the easter lamile on the 15th: they do not do it that, but rather they set its on the afternoon of the 14th although accord to them the eating of it, contrary to the words of Moses, comes on the 15th. His work, however, deserves the most sincere investigation: When almost the whole controversy will be condensed to the question whether moses counted the night, Jewish fashion, with the following Day or whether he makes an exception with the daily sacrifice mores, contrary to the Jewish mariner, has the morning sacrifice precede the one Digwied britisher or Andrew Messerta Mer. Ir.

he seems to take the day together with the following night - a possible objection that deserves Mr Fr's elucidation. We shall have apportunity to releve to some more differile offinous when discussing the parts of the book. The first & second chapters give an explanation of all texts in the Old & new Test. Where mention is made of the Easter laurb. It is by far the most important + contains almost all matters explained later fin detail) reparately. Accord to pp. 76 + 781 the sprinkling of the doors is not only in Egypt for all times. It applied however only to wooden doors as a prototype that a tree would be dy stained with Christs blood: the Orraelites did not have stone-doors in Egypt, therefore hence, Moses did not have to make add this restriction. p.127 (Where, then, did Mr. Frisch get it?) The gods of Egypt, which were slains by slew with the firsthorn, according to pp. 113-115 are not sacred animals, but rather the nobles (nobility) because Mer. Ir. doubts that the animal-worship Digitized by the Center for Adventist Research

p 1277 - court. is as old as that. We do not want is accept his mere doubt as a proof. But with his opinion he could almost have used the place of Diodori Siculi V. I. C. 90 than the one cited from the Bible.) Contrary to common ofinion view that the slaves of the Jews were compelled to have circumcision without answering the text in hen. 17: 13. He very much opposes the view that the easterland is a vacrifice Exod. 23:18 therefore is not supposed to refer to the Easter land but rather forbids to add, a leavened (20ur?) food-sacrifice to the bloody sacrifice Exod. 34:24; Nenn. 9:7; 2 Chron. 30:16 he explains as of the freewill thanks offerings which were brought on the easter feast. P. 270 he asserts - contrary to most - that the Easter feast was celebrated every year even in the desert. Deuter. 16:7 he uses as proof that the day of the Earter land was a working day. 2 Chron. 30:28 is suffered to read 7×2, this time, 4 verse 22, 27 74 727 to have a discussionisti acettactus restination of the hevites

p. 1277 - cout Both is contrary to usage + is not proved by him by an evaruple. Esra 6: 20 is supposed to deal with freewill offerings on the Easter feast The sixth day before Easter John 12:2 a Sunday & is the 9th hisan. The first Remot certain to m; the second sests on the correctness or uncorrectness of Mr. Fr. main hypothesis. John 19:28 he tries to prove that the entry into 2 the heather house of the judge defiles for 7 days, & thus would have excluded the pharisees who had already partaken of the Easter lamb from eating of all further sarifices of the feast' during all the seven days. The 3rd chapter asserts the Easter lamb p.1278) was no sacrifice which does not agree with the conception of a sacroment. That it was a sarament he proves (by pointing out) that no ques gift was presented to bod, consequently it was no sacrifice. (Thus the definition of a sacrament will be: a holy (desert) florformance Digitized by the Center for Adventist Research

1278 - cont. when no offering gift is brought to God.) From the definition of a sacrament he comes to the conclusion p. 697, that it was ordained by God Since he also believes, a sacrament connot be a prototype be assumes p. 738 the Easterland was a sacrament but not insofar as it is a prototype of a prototype insofar it is no sacrament. To grasp this definition was a little difficult for is. The only main objection against the theris that the Q.T. really did have so called sacramento is not touched 4, as it seems, not Russon to Mr. Fr. The 4th chapter explains the prefixquirative (type, typicae) of the Easter lamb. Mr. Fr. did not let loose the bridle of his wit to the extent as some do in theology; however, much here still seems to us reather arleitrary + playing: so that we would rather completely refrain from typical theology it it were not possible to deal with it in yet rentences which though poorer, are more convincing the ?? Easter Digitized by the Center for Adventist Research

101278 - cont. Racrifices picture Christ's reven wounds. The Easter lamb had to be roasted for a cricified is supposed to look as brown as rasted weat. Our pictures of the concified Jesus at least do not look like that, yet they are Eupposed to be imitations of the preture which siallo painted according to & life.) About the time when the Easter lamb was Killed between the 2 evenings God slew the true Easter Camb, Jerus, in the garden by his soul auguish: p. 767. Get the 2 evenings preceded the Easter meal while the roul auguish of Jesus followed it! Mr. Fr. himself bets it after midnight & again, When conseinent to him, he asserts this time is called the morning in the Passah laws. Even the con. demhation (verdict?) of Jesus before the high mest which took place still more towards morning,

represented the time if the prototype

1279 is sup profitzed of the tenter to flavore the time in the prototype the two evenings. On occasion he gives p. 763, a peculiar translation of Pr. 118:27 bind Him (Jehova of V. 26.) like a feast sacrifice with tords; yes, up to the corner of the altar. The 5th chapter, on the last Easter. lambs day of Christ, as his day of death, we have made excerpts when presenting the main points of the book. However, he confirms the correct common thesis that Jesus died on a Friday. It is peculiar that he points out on p. 943 that Jesus lay in the grave on Sabbath of Now then Sablath is to mean the 7th day of the week while earlier when it was convenient for him to prove another thesis, he took it for Easter-Sahhath. Another proof again is based on the teaching (tenet:) of the prototype: Though without froof, the yet he assumes That 5 od choose the Digitized by the Center for Adventist Research

p. 1279 - cout. working day for the first Earter lamb in Egypt which was to be Volay of death of Christ's) of them he shows from Seder Olam - not without using violence (straining the meaning?) since it (Seder Clam?) were not even in the position to plausibly to witness of times that so far back that the 14th his an on the first Easter feast of Moses come on a Friday. The sixth chapter deals with the Easter racrifices. He desires it was allowed to bring them on the first or seventh days of the feast, for, says he, these days were Salkaths of the Sab. (was broken of by offering, Matth. 12:5 for which the Jews had no command; besides, the many sacrifices would have hindered the priest to preach for he assumes the priests had always preached on Sabbaths.) There remain thus the five di middle days, as from the 2nd offerings. The reventh chapter lists the textsigitized by the contents Administ Research

p.1279-contfor ealling the morning which follows the Passal right, the following day (Tyv ETTIOUTAN) of the Passa an offering, get he wants to conclude from the expression used but buce Kaj Tyv Traoja Tpooaxopevoyernv Doviav p 1280.) ¿ Ti Tji vaits, they slew the sacrifice, named Tax Passa" (Aut. XI. c. 4. \$ 8.) that Josephus did not consider it a proper sacrifiel. The question will be raised: How is such a conclusion possible? Answer, he supplies the words: Týv Tposaroprou inn Dusiar-The most noble note is on the lext de Bello Jud. 1. VI. e. 9. § 3. where the people, according to the minutes of Passa-sacrifices slain between 9 + 11, which according to our time is between 3 + 5 P.M = 2,56,500, figuring not more than 10 persons to lone Passameal. Everybody understood this to be of the passalands which is against Mr. For hypothesis on account of the time of the slaying & applies to the main thing (chief point!)

He want to the would to have it Digitize by the Center for Adventist Research

p. 1280 - cout. applied to thanks offerings of the 2nd to leth days, making 57000 to each day. How to arrive at 2700000 by multiplying 5,000 by 10? or did each Irraelite eat but once during Mr. Fr. proof are based on his previous explanations of the texts by moses which course the controversy. One can agree to it & still believe, in Josephus' time these texts were understood the same way as today, consequently Josephus cannot be explained by them but rather he was mistaken together with the lews of his time. However, we are not as foolish as that to express an oficion as our own after Mr. Dr. pp. 1056, 1059 made this statement: Either one does not know Josephus at all, nor understand his style of writing, if one recks looks for the Easter lamb here, yea, one would have to invent romething purposely & Lorcelly & whoever is not willing to accept, it, there would be no use to discuss with such a one the text of Josephus. We willingly keep silent , know our duty. The last chapter is set against

the works of the late

2 ken, Schöttgen, Schäffer,

Bengel, Harenberg & Clemmi

We earnot give excepts

from it.

Translation Bentvick, N. Biography Philo, Judaeus 13689. Z 9134 David Hoffmann Mar Samuel Leipzig, 1873 p.16 While in Palestine the oppressed situation of the Jews-who often barely could wrench a seanty existence from the unfavorable conditions- imposed upon the disciples of the rages (scholars? wise men?) the duty to contract a marriage union upon full completion of their studies at an advanced age in . order not to be hindered in

about sustenance, with the Rabylonian Digitized by the Center for Adventist Research

their mental activity by cares

p16 - cout'd (2) Jews living in wealth and Comfortable position, it was the general custom to enter the state matrimony before reasling the twentieth year ) [I Rapoport, Erech Millin, p. 226.] and athe case, where a Babylonian studying low leaving his homeland as a husband and father of a family going to Palestine there to complete his studies. 3) [ 2] Bittin 66 and many other places. ] Soon after his return from Palestine, Samuel, toto, had a faithful life partner (helpmate) placed at his side 3, [3) shove note 17.] but he was not willing to leave her and go abroad, rather he intended to continue his ocientific studies in his homeland. Aside from practicing medicine and low

p. 16 - cont'd (3) he applied himself mainly to astronomy - that science which is able to generate the most stimulating impression of the sublime upon the human powerfof agination striking the dust-born earthling with admiration for the grandeur and ownipotence of the creator of the Babylon already in most ancient time was the home of astronomy. No other land like this allowed the observant investigator a wide, unbindered view over extended plains and into a clear sky obscured by no cloud thus favoring so exceedingly the cultivation of this science. The inhabitorits \$.17) in these regions have indeed occupied theriselves more

p. 17 - cont.d -- 2 than other peoples with astronomical observations and stood in high regard because of their knowledge in this ophere (domain). Of the city Nehardea, Samuel's place of residen Plinius reports expressly that it was the seat of the Hipparenes, a famous seet of the Chaldaic wise sages!) [ Note 1: Plinius, Historia naturalis 6,30: Sunt etiannum in Mesopotamia oppideem Hipparenum Chaldeonem doctrina clarum e.c. This Hipparenum is rightly identified by Mannest with heharden ( Geogr. d. briechen & Römer I, 2. p. 286) 7 In these regions the Jews, too, may have become friendly with the astronomical science and acquired manifold knowledge in the same which seems to be very remarkable especially with the house of the patriarcles in Palestine which come longing

p. 17 - cont'd (3) from this country I and here, too, Samuel with usual zeal cultivated this prominent (lofty) But while with the Chaldees, as generally with most peoples in ancient times, astronomy was closely tied astrology that delusory science which pretends to be able to predict man's fate from the position of stars -- in fact, astronomic importance is due to astrologywith the Jews, the former was given much more devotion. The study of this science was declared la religious deety because it leads to the knowledge of hod; omnipotence & omniscience. Barkappara, one of the most excellent students R. Juda ha -Masi's taught; who knows the calculation of the course of the stars and fails to practice it, to him the raying of the

p. 1 ] - cont'd (4) prophet applies; " The works of had they do not see and the creations of His omnifotence they do not behold ( Ira. 5:123). [ note 3: Sallath 75at In the same spirit other teachers of the law taught that it was meritorious to make astronomical observations 4. [ Note 4: R Johanan (l.e.) and Rale (Jerusch. das. J. Taking to heart the words of these teachers, Sound too, occupied limitely merely because of its lofty purpose with astronomy and cultivated (attended to) only its scientific side [angle]. To be sure, lin order to increase his knowledge he associated with heather astrologers one astrologer, named Ablat, even was his intimate friend / [Sabbath 129a, Aboda rara 130 a. of Rapoport, Erech Milin teacher of Samuel of Jerusch Sabbath III, 4.7

D.18 - cont'd. (2) however, he spoke (referred to) reproving ly of those of his fellow-believers who applied themselves to the would-be science of astrology, saying: With the astro-logers who constantly look to the sky you one will not find nomology (knowledge of the law?) 3) [ note 2: Deuteron. rabbah VIII alluding to the vers: (Deuteron. 30, 12. " She is not in heaven." Comp. about this R. Lewa of Braque in Cap. XIV. J He contradicted also categorically the opinion of the astrologers that the fate of all burnans is determined unalterably by the position of the stars, he taught on the contrary that it is in man's power to elide (withdraw from ) the misfortime decreed against him-which the astrologers pretended to be able to read from the constellations - by good deeds pleasing to bad, and he sought to convice also his friend Allat of this his Sewish view by demonstrated facts. 3) [ Note 3: Sabbath 1566. An older Baleylon bighted by the Center for Adventist Research

p. 18 - cont'd (3) mentioned R. Joseph har-Bolli, had already taught that in the words of Scripture: (Deuteron. 18, 13) Thou shall walk uprightly with the Eternal, Thy God, is contained the prohibition never to let the Chaldeans tell one's fortune (cast a horoscope) for this testifies of lack of faith in God. (Pesachim 1136.) It cannot be exactly determined how highly Samuel's knowledge of the astronomical rcience rates, for axide from the numerous teachings and sayings in both Talmurds of which but a few fall into the ophere (domain) of astronomy, no written works by him have come down to us; not even a dependable information has been preserved that he has been active literary in astronomy. Although two works are ascribed to him, but in the Barailha - de - Samuel, to Which access was made possible

0.18-cont'd -(4) to us since a few years 4) it has later origine, and it can be assumed with certainty that with the other works carrying Samuel's hame we are dealing with a pseudoepigraphy too. I Lote 4, 18: The 3x1007 x7"72 repeatedly quoted (cited) by authors of the middle ages ( by Machmanides with Job 26, 13. Baraitha schel Sod ha-Ibhur); of which nine paragraphs appeared in print 1861 at Salonichi under the title ברייהא דשמראל הקמן, speaks of the year 4536 mundi (776 according to .... time and was written about this time. cf. Zung im Steinsehneiders hebraisshe Bibliographie V, p.15. [ Note 1, p. 19. It is supposed to have been written by Samuel.

p. 19 cont'd (1-2) Seder har - Telluphoth is in manuscript form in the Vatican (Cod. 387 no. 17); ef Zung, golles dienstl. Vorträge, p. 93 and Bartolocci, Bibliothera rabbinica [ p. 388.) distinguished bimself in the Knowledge of the celestial bodies is evident from the following words spoken by him: "The celestial spaces are so well known to me as the streets of Nehardea; yet I am not able to fathour the nature of the comets and their movements; only this much is certain with me that a comet never crosses the Orion for should that happen the world would be destroyed. Though we sometimes see that it is crossed, this is merely an offical illusion because the light

p. 19 cont d (3) streaming from the comet appears to us to be the star itself. ?" [ Note 2, p. 19: Berachath 586 (in Hebrew] Many other teachings and sayings of his testify that he sought to explain the phenomena of the sky in a scientific spirit 3), [ Note 3, p. 19: cf. Synhedrin 126, Erubin Sta, Berachoth 586 ff. + Sabbath 1296. 7 and herefrom follows with certainty that he kept pace with his time in astronomy or even was ahead of it. Samuel's deserved especially well special ment was that he especially cultivated that branch of practical astrononing which deals with the Calendar computation spreading this knowledge in Baleylonia This so important branch of Knowledge for the religious

6,19 - cont'd (4) as well as civil life at that time could find practical application only in Palestine where alone the fixation of the legimings of the months and inserting of intercalary years was admissible (valid?) 4. [ Note 4, p. 19: Sanhedrin 116 Jerusch. Nedanin VII, 8. Only in an energency could collendar computations be made abroad by those qualified herefor The method of Chanania, the nephew of R. Josua who determined in Babylon the beginnings of the huonths and intercalary years was strongly denounced from all sides. See carlier note 10.) / \$. 20 yet thanks to the stimulation by Samuel it soon became a matter of eager studies with the Babylonian teachers of the Logisted by the Center for Adventist Research

p. 20 - cont'd (2) the legiming of the month (Rosch Chodesch), on which also depended the feart days, at that time (in those days?)- when the Sanhedrin, headed by the patriarch, had its seat in Palestine - took place always on the day when the new moon became visible as a nearrow sickle in the sky for the first time after the new moon. This had to be announced by witnesses before the Patriarch.
4. his college who on the one hand. (partly?) in order to examine the testimony of the witnesses, on the other hand in order not to let disorder enter the calender even in case the moon were not seen by witnesses at the proper time, in the calculation

p. 20 - cont'd (3) of each new moon (i.e. the time when the moon enters conjunction with the sun) as well as in the knowledge of the time when after each new moon the becoming visible (visibility?) of the moon is first possible," [ Note 1, p. 20: cf. Mainonides, Jad ha - Chasakah h. Kiddusch ha -Choderch cap. 1 x 18. Though in this calculation of the time when the new moon begins to become visible the witherses were completely superfluous, the tradion-al command demanded the application of the statements of witnesses, if possible, and only in an emergency it allowed the determination of the begiving of the month by mere Calculation. This coloulation, however, differs from the one"

1.20 - cont'd (4) later by Hilled II introduced Calendar order, which figured the distance from one new moon to the next by the average duration of the syriodic month. As roon as the beginning of a new month was ordered determined, this was amounted by messengers to all Jewish community But those communities which were so far away from Palestine that no messenger could get to them before the beginning of the feast day remained in doubt about the true time of the feast and had to celebrate two days instead of one. 3) [Note 2, p 20: Bezah 46 and many others J. The rules followed by the Sanhadrin in all

calendar calculations as well as the astronomical calculations which go with it were entrusted I under the name Sod ha-Ibber (calendar secret) only to ordained teachers of the law? [hote 1, p. 21: Kethubath 112a. The reason for keeping these teachings secret is given by R. Serachjah ha-Levi, Maor, Rosch ha Schanah paragraph I and by R Mordechai Jafah Lebisch ha- Chur, paragraph 427. 7 Besides, they were written in short and obscure hints in a Baraitha 2). Note 2, p21: Rosch ha-Seleanah 206.7 Samuel now had oletained thru his astronomical studies about the movements of the moon Digitized by the Center for Adventist Research

0.21-cont'd (2) the necessary knowledge and could express before his colleagues the allegation that he could announce to the Jews in the diaspora each time the beginning of the mouth as it is being established (fixed?) in Palestine and thus save the double feast days 3. [ hote 3. p. 21. That according to the explanation of Raschi; R. Abraham ha-Wasi in Sefer ha - Ibbur Th. I porta 5 say differently; ef As avjah de Rossi, meor Enajim, Supplement. / Although he was not able to decipher the sentences (points? principles?) from the Baraitha de Sod ha-Abbur and had to hear

21 - cont'd (3) from him the remark that I he does not understand mony other things from the Sod ha - Ibbur 9; yet he knew how to prepare a calendar for 60 years, and letter he sent it to the head of the Palestine teachers, R. Jochanan, in order to show him his superiority 6. [ Note 5, p. 21 The obscure rentences asked by Able later were explained by the Babylonian R Seira who went to Palestine. However, this explanation found in the Talmud (Rosch ha-Schanah 20%) is still so obscure that the commendaries about it vary in many different explanations. of. Raschi and Maor das. Korari I, 20, Ilm Esrce,

p. 21 - cont'd (4). Iggereth ha- Schabbath porta "; especially R. Isaas Israëli in the Jerod Clam IV, 8. 7 L Note 6, p. 21: Cholin 956. This calendar probably contained the order of the flast as it then usually was fixed by the Palestine Sanhedrin which, was quided as is known in its determination of the beginnings of the month by the visibility (becoming visible) of the new moon. Therefore, it was not so arranged as the later one instituted by Hille II. However, this still needs a close investigation, for many an objection can be raised against it of Maimonides Jad ha-Chasakah h. Kiddusch ha-Chodesch cap. 18.7 However, he never thought of

p 22 - (1) publishing this calendar, because as long as there still existed a religious authority in Palestine he did not want to tear the only bond which still tied the Jews to their former homeland! [ Note!, p. 22: That he never did have the intention as Krochmal and Jost erroneously believe, to publish his calendar and that his raying · · · · · · (delineur) -- was not connected with the intention to eliminate the second feast day with (by!) a fixed calendar, is evident from the fact that Samuel wanted the second feast day held as sacred as the first and that he severely avenged

s 22-cout'd (2) its desecration (Perashim 52a). (cf. Iraëli!e.) Tyet he did not fail to teach colleagues and students in the knowledge of the calendar and the Baleylonian Jews received their first knowledge in this seince from him. 3. [Note 2 p. 22; Because of the excellent knowledge which Samuel possessed in the Calendar science which even revealed to him the secret of the determination of the beginnings of the months the name Jarchina ah (....) cf. Baba ulezia 856.) Among other things they also learned from him, the length of the solar year as equaling 365 days

s Wh - cout'd (3) and 6 hours. 3), that is why this determination of the length of the year, the always in use ley the Sahedrin in Palestine 9 with the Baleylonian - as well as later with the Jews of the Occidentcarried the name Tekufah de Mar Samuel J. [ Note 3, p. 22: Evulain 56a.] I Note 4, p 22: cf. Asarjah De Rossi, Nacor Enajim III, 40 and Scaliger, Dagogicorum chronol. cononum p. 282 ff. [ Note 5, p. 22: The this Tekenfah is not calculated exactly even according to the Jewish calendar since accord to it 19 rolar years which were to correspond to 235 mouths of Hillel's calendar, exceed them ley 1485/1080 hours, but this by no means was unknown to Sanuel, he merely wanted to have a more conDAL- cout d(4) venient figure, for in his time it still was usable ( cf. Abraham Ion Esra, Commentar zu Exod. 12, 2 and Iggereth harchalbath porta I.) hater a certain Rale Adda divided this excess surflus in 19 parts and subtracted one such part of from 365 days and 6 hours and thus reduced the length of the solar year to 365 days 5 hourst 55 145/342 minutes, so that 19 Tolar years amount to exactly the same as 235 months at 29 days 12 hours 44'/18 minutes and this year-length is called Tellufah de Rab Adda. But Enging. the Tekufah de Mar Samuel was not wholly set aside by this; many a regulation with regard to the literary still have it as its basis of Tur and Schulchan aruch, Orach Chajim paragr. 413 ized & Degener for Adventist Research

p. 23. Though Samuel had plunged himself deeply into the study of Astronomy and calendar reience yet his eager aspirations and his lively interest was turned (directed!) in a still greater measure to the study of low, for which right at this time in Babylonia a new era began. The most gifted. Babylonian students of R. Juda 2) after the completion of the Mischna tried to get to their home country and brought the many hundred year old brain-work of the Jewish seople incorporated in this work to Babylonia in order that the tree of life of the law, transplane into this country, would ripen 4 produce new noble fruits. Among these returned students of R. Juda are prominent; R.

623-cont'd Abba b. Chana, and especially the excellent disciple of R. Juda, Abba Aricha 2) who returned home later both authorized by the Patriarch. to administer justice and to deside legal religious questions 3). [Note 1, p. 23: Sauhedrin 5a. Oddly enough, this statement how been ignored by Frankel who forthwith asserts (Introd. in Hieros. p. 576); R. Abba b. Chanah had not at all moved to Palestine. This R Abba often erroneous. ly was called R. Abba b. b. Chanah, which was the name of his son. (cf. Cholin 86, 44a, Jerusch. Baba mezia V.7.) Perhaps it is this R. Abba, of Whom Seder Tanaim relates: .... Hebrew .... (Kerem Chemed IV, p. 186). In any case that whole statement is in Contradiction with Scherira's reports. Rapoports (Erech Milin, p. 139) attempt

p.23 - cont'd to smoothe it out cannot be called successful. T [ Note 2, p. 23: cf. Supplement, Note A, VII. Alba Aricha in my opinion returned about five years later Than Samuel and very likely had no association with the latter in Palestine because he had R. Chija as a teacher While Samuel had Levy and R. Chanina. If the assumption of Maimonides (Introduction to Jad ha Charabah) that Rab also was a student of R. Chaninah, is justified, then this must have been later, a few years before his departure where we actually (really?) find him associating with R. Chaminale. (Joura 876). 7 | Note 3, p. 23: Sanhedrin 5a; Jerusch. Dea VI, 3; Sotah IX, 2; Nedarin X, 8; Rab received a Somewhat restricted authorization as R. Alba b. Chanah, according to Talmud in order to fortures
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p. 23 - cont d bring the latter into favor with his countrymen, which was not necessary with Rab, since he already had a high standing (reputation) with the Baleylonians. I The latter, who returned to Babylonia in the year 189 accord to the time reckoning of tradition (n. ii. 3.) was preceded by his grand if reputation, and Samuel was eager 24 to get in closer contact with this famous man, this all the more When he heard his friend Karna. Who upon his wish had gone to meet Ablea & addressed a few halashian questions to him - to confirm this reputation. Luckily the occasion for this presented itself immediately. for Able had arrived sick in Whander Samuel had him brought into his house, where he, applying his knowledge of medicine, soon restored his health and concluded an intimate union of friedship. ". [ Note 1, p. 24: Sabbath 108 a. It is reported there Digitized by the Center for Adventist Research

p. 24 - cont'd too, that Alba was so aroused against Samuel because of the violent pain caused by the medicines that in his excitement be pronounced a cutse against him; but be soon repented of his burst of anger and later tried to again make good his quilt (wrong) by always meeting Samuel with the greatest respect of Megillah 22a Baka Kam. 80a.) T These two nien, later joined by Levi, the former teacher of Samuel, who had come from Palestine in the year 195 to hebardea? soon developed a lively activity for the spreading of the study of law. [ Note 2, p. 24: Sableath 596, cf. Raschi das, and Supplement note AVII. Rab in this time, too, had once more moved to Palestine and returned from there only after the death of R. Juda, 193. (cf. Jerusah. Peak VI, 3; Sotah IX, 2; Nedarim 10, 8). 7. While Ablea, generally called by the name of honour Rab (Teacher 3), Thate 3, p. 24: Digick by tracking Autoritis Research X. 7

(3) p. 24 - cont'd officiated (acted?) as Emora in the teaching house (school?) at Nehardea-which was presided over by R. Schela Das Resch Sidra (head of the teaching house 5) - as p. 25 Emora officiated and thus first net up (presented himself) as the interpreter of the Mischera then already used for public lectures, Samuel, following hevis example 2) was busy (occupied) with the collection (collecting?) the teachings of tradition handed down to him by different teachers; and thus originated the Baraitha, called Tana de Be Samuel, of Which we possess still but a few fragments in the Talmud 3. [ Wate 4, p. 24: This Rabbi Schela must not be identified with the Ralo Schela named ingeleamoth 121a, as is done erroneously by first

25-cont'd (4) (p24, Footnote # 4-cont'd.) (Kultur & hiteratur-beschichte der Juden in Asien I, p91), for the latter was subordinaled to Rab and Samuel. But whether this R. Schela is the Rame who according to Berashoth 58a was nominated as judge ley the government, has already been regarded as doubtful by several Chronographers. 7 [ Note 5, p. 24: Epist. Scher. p. 15. There it is told that R Schela, 7:372 x wy according to another version >>>> \* what at that time in Baleylonia was called 8770 07. 73272 8007 must be amended to יש איז איש בי קבדן since דושבי ובנן was the popular name for the teaching houses (Schools?)
(Megillah 286). The name Sidra was used more in Palestine and became naturalized (customary 3) in Babylonia only three the teachers of lawfitized by the Center for Adventist Research

0.25-contd (624 - notes collet'd (5) Cef. Jerusch. Pesadein I, 1; Rilajim In, Vi). Sometimes the lecture in The teaching house was called Sidra (cf. hevitie, rabber III and Jerusch. Pesashim IV, 1, where, how-'ever it is called "order of the prayer" ley R. Ascher.) 7 [ Note 1, p. 25: Jonna 206, cf. Rajogort, Eresh Millin p. 117.] [ Note 2, p. 25; cf. above note 38.

Bakor mezier 48a; Jeruseh Bakor
6. 14, 4. 7 [Note 3, p. 25: ef Bezah 29 a, Raselii In the Jeruschalmi as well as Sometimes in the Babli this Baraitha is simply designated as. > 27 27 22 ef Jerusel Kilajim VIII, 2 Berachoth TV, 1. Moëd Katon I, I and several others.) But many other statements of Samplitzed by the center for Adventist Research over (quoted 3)

6.25 - cont'd (6) with 3x122 70x also seem to be parts of this Baraitha. Especially those statements of Samuel should be counted with these which are also found in older Baraithas. Cf. f. inst. Berashoth 12a, Sabbath 15a, 60a, 1086, 150a; Pesaehim 45a, 117a; Moëd Katon 12a, [s. Jerusch, Sableath I.] Rosch ha-Schanah 7a, Jelamoth 1166, Rethuboth 10ba, Sittin 576 and This Baraitha consisted, as is evident from the places quoted in the Talund and Midrasch ", partly of explanatory additions to the Mischina (Tosiphtoth), partly from old Halachoth, sometimes together with their derivation from the Scripture (Widrasch), partly also from older sægas and historical reports. However, this Baraitha in spite of its correctness
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25 - cout'd (7) and dependability, did not attain R. Cliya and R. Oschija D. [Note 4 p. 25: The Tana de Be Samuel is expressly mentioned in the Talundic literature: Salkath 54a, Etulin 706, 86 a, 896, Perachin 3a,. (76 must be amended), 39a, 398, Bezah 299, Rosch ha-Schomah 29 8, Joura 70a, Megillah 30a, Selashim 22a, Genesis rabbah XII (here - Hebero - must be amended to ...... of whid. XI.) Note 5, p. 25: Exist. Scher. p. 9: Hebrew 3 eines As for the rest, Samuel, however, never intended to set up this collection as a standard (canon?) for general use since he himdelf was not always guided by it when he taught for exercise of religion (Halacha le m'ase)!

0.26 - cont'd [ Note 1, p. 26: Salhath 54a, Bezah Helesew. to collect ald traditions, did not lie the chief point of Samuel's work for the teaching of law; this rather should be looked for in another sphere, where to the giant mind of Samuel presented itself a far more preductive field for the deployment of his activity.

Translation from German. "The Jewish Calendar" Historically & Astronomically Examined A paper crowned by the Jewish Theological Seninary,
by Dr. Adolf Schwarz

Breslan, Schletters' Bookstore (H. Skutsch)

1872 (136 pages)

LC: CE 35.54.) Preface. The abundant literature on the Jewish chronology is comparatively meager as to strictly scientific presentations of the donstant calendar The Lew works of the baon epoch were lost to us in the course of time of the most part as well of the old as well as of the more recent calendar papers writings on the calendar have no other aim (good) than to popularise the Molad & Tekupha calculations in manifold variations, The Jewish calandar enjoys a Digitized by the Center for Adventist Research

a deeper understanding + a more or less systematic treatment solely from those chronologists who duely appreciate also its astronomical side that is mainines and Israeli, though they are leared on Ptolemaean rystem, will continue to remain writings worthy to be read, But as these are less concerned about the Jewish chronology in general and rather about the now existing calendar, even they have not taken into ment of our time reckoning. De Rossi is the first to make the history of the Jewish calendar a matter of critical investigation His achievements, however, were mere beginnings for statements?) and up until now, there the matter rests. Not until Slonimski Senior Sachs Piniles, Reggio and Steinschneider the scientific investigations on the generis of our calendar were again

Selwan - 3 taken up and considerably furthered advanced. The present work starts out proceeds from the achievements of these men. How far it has succeeded in reaching the good of the investigation - to decide this is left to impartial experts. Breslan, April 1872.

"... Though much has been raid against it ... yet it remains a certain fact that our law giver began his creative activity with a time reckoning in many ways different from the Egyptian reckoning. This cannot be those misstatements our former as well as our present calendar is experciencing from various rides. While making but that the time reckoning of our ancestors was arbitrary of without rule, we are told that the socalled new Jews were students of the Chaldeans & brecks from whom we borrowed if not the whole calendar, at least the chronological principles. [ Note 1, p. 3: Thus Scaliger in his Em. Temp. p. 79. "Judaci (igitur) tune primum hunarem annum..." I deler however, admits that the Biblical year was a lunar yr, but the present calendar has too much similarity with the breck calendar not to make him think the

latter has served as pattern to the Jonner. The interculation method discovered by Meton, the 19-yr cycle, with the Jews, only trading (covered?) with rabbinical sue ditation broodings. Comp. "Zeitselinft der. d. m. Ersellsch 1. ,344. If this were really true we could, in systemstically the present permanent calendary take into consideration the historical development only in a small degree; we would have to abandon, the continuity of the old + new calendar and look. for the tracks of the latter on untrodden (trackless!) paths. However, we want to approach our task without preconceived ideas, and in order to properly appreciate the principles underlying our permanent first of all the sources running on home soil and also those in foreign Countries demanding from them information + explanation. We must place the historical side in the

foreground because in our opinion the system of the calendar is seen in its true light only by entering into the details of its genesis) origin. Instead of siret dealing with the system enalytically + then try to justife the principles thus gained arrived at), we prefer and that for practical reasons, to follow track, the range of modifications the leasie principle of our time computation has experienced in course of line in order to learn whether & in what form it was made the basis of the present calendar. Thus, proceeding from the simple elements to the composite whole we can present the agreem only synthetically. However, we thought we must not stop here; for what does it profit to know & understand the calendar system how it was perfected genetically if you do not have the guarantee that this calendar agrees most minutely with the sky? f This circumstance and the

Selwarz - 7. from the Jewish chronologists, especially Mainrouides, were the causes that we extended the bounds (limits) set us, (also to the other side) and as far as our limited mathematic al knowledge allows we of it to consider the astronomical side of the calendar as well. According In accordance with these governing points of view our work is divided into three main parts, which are: I History of the Jewish Time computation To the System of the present permanent Calendar III The astronomical calculation of the Moledoth & Tekuphath.

Schwarz - 8 Page 5 T History of the Jewish Fine Computation the time competation of any people from its first beginning down through all stages to its completed perfection he one must know the early history of this people at least so far as to recognise its primitive views in the chronological principles. L.G. For nothing alfords a better inside view into the intellectual life of a people than its time reckoning provided it is not taken over from outside (other people!) 1.8. Although it is a mere guess that in ancient times there have been many different time competations, yet it is more than probable that the peoples separated by their origin have divided their time in special ways. L12 We know the time reckoning of but a few nations & even that only in its last (phase) stage so that we count gain a clear picture of its development L. 15. In this respect the Jewish calendar has the advantage above all others in that our history, our low starts

but with the establishment of an ordered time compaddion; but the rounce we see begin at the banks of the Vile soon is lost in the sand & not remains invisible not only during the long pelgring in the desert but also during the long period until the exil and only we see its track only in a few isolated places. do we believe to be able to see its track (trace?). 122 Until Erra, we find but a few facts or proofs to justify our assemption that the time computation had been changed to not to say improved and one is compelled to sesort to hypotheses which are probable a principle internated in the 128. Sinjetures. With the appearance of Esra the knowledge gained in the foreign country makes itself felt chronology, a new angle (moment) is introduced into the calendar, an angle which at first is considered merely as an a sideline but which

Selwarz - 10 gradually gains in influence and the end alters in different ways
the establishment? of the new moon
(or:accepted)
sanctified through many centuries L. H. At the time of the record temple the calculation on the calculation as a new factor side by side with the observation of the new moon. With the completion of the Mishnah the calcul. ation is on an equality with the L. 8 old method. Rabbi Juda I conceded still greater influence to Healeulation more prevalent over the observation until it finally with the introduction of the present calendaritis the auto-L. 11 cratic power. Thus we distinguish three periods (epochs) in the history of our timerceloning: Chronology: L.12. ! From Mores until Esra when the newmoon was established by observation; by from Esra to R. Juda hanasi, when with observat son calculation too gradually gains power; 3. From R. Juda T to Hillel II (359) when observation is more of more lost in the background until it finally has to make place sentirely for

Schwag - 811 Palge 6 L. 19. I Epoch (Period) From Moses to Esra. 120 The beginning of the civil day with sunset is sufficient proof for the assertion that our months have been lunar 222 months since oldest times. From Mumerous Bible texts it is unequivocally plain that the day belongs to the not have been the case with a tolerouslogy had been based on the run and naturally proceeding from with sunvise. [ Note 1, p.6: Instead of quoting here the many verses of Seriptures, we merely want to point out that the days of unclearness came to an end with sunset. Compare on this the explanation of Raschlam to Ben. 1:5 printed Kerem Chemed 8, 44) of the apologetic directation of Ibn Erra on the Sabbath, Chapt II. to to the main periods of the day, it can be assumed that they were in are very early. Besides the night was divided at first into three vigils as is clearly evident

Silwary 12 from Judges 7:19; later the Roman custom was copied dividing the night into four vigils, comp Berachoth p 3a. In the earlier ancient times no mention used in Dan. 4: 16 does not at all have the meaning given it only later. Likewine it is doubtful, Whether the seen dial of Shaz 2 Kings 20:9-10, Ira. 38:8 was a proper sun clock or a known with concentric circle to make known the periods of the day through the different lengths of the shadow. Latterer (Abriss d. Chron. p 144) it is true assumes that the conception of noon & midnight presupposes the existence of sem-dials 4 water clocks, as though it were not possible to recognize noon by the short For shadow & midnight by the phases of 2.26 the moon, I A further proof for our assertion is P.D the week-concept. for nobody will want to doubt that the week is very ancient a likewise Digitized by the Center for Adventist Research introduced

Selway 1913 merely as subdivision of either the tropical or the synodic mouth . Note I Note 1, p. 7: The week has come reached the breek and Romans through the medium of our people scattered to all sides; they translate it by EBSou'as and septimana. In the beginning the names of the simple days of the week were taken from Hebrew language usage, as wia tabbattor in the West. is a proof that 57 200 was als talken meaning week. Isidones relates that in the Catholic church the week days are called Feriae according to the vitus ecclesiastices, This name has found defferent explanations. Scaleges thinks it is transferred from the day of the Easter week which were Ferial according to a decree of Valentiniany to a decree of Valentiniany to all other days since the by original (early?) Christians who began the ecclosiastical year at Easter named the days of the remaining weeks after those of the fightized by the Tender to Adventist Resellich 0, 12 180)

Selwarz - 14 believes to have found a better reason. The first Christians, says he used to keep aside from Sunday Wednesday & Friday as days of fasting & prayer. Now in order to distinguish the two days of the week (to tell them apart?), they called one feria quarto, the other Seria sexta, a soon followed the I feria I, II etc. It is not for us to explain the vitus ecclesiasticus yet we do not believe to be wrong in assuming the name ferial an adaptation to the Hebrew form ישני ,שני ,שני ,שני בשבת Thast plainly, however, are for the real character of the month speak the names the Helerews had for it From the word 774 Prings 6:38; Ps. 104:19 which unnistakeably comes from 777: as well as from the word 277 & which fits only to the light pleases of the moon, it can be concluded with certainty that the Hebrews Knew no solar mouths.

Schwarz-15 [ Note 2, p7: The expression 1 W 772 W77 55 W Mund 28:14 is the best proof for it. 7 1 Note 3, p.7: Comp. Den. Esra to Gen. 8:3 and Des-Vignoles Cleron, de l'Histoire Sainte l. VI. C. I., who in 1. verses VII: 24 - VIII: 20 finds proof for his hypothesis according to which in the earliest time of the world in the near East and Egypt a year consisting of twelve 30-day months which is a medium between a lunar + a solar yr, was custome L. 10. Yet however plansible & well 3) founded this view is still it found its opsonents 3 who believed themselves to be able to disprove it L. 12. from the Bible. They assert that from the history of the flood it as unequivocally evident that the original months of the Hebrews like those of the Egyptians and Versians consisted all the way L. 15. through of 30 days. The flood, it is stated, began on the 17th

day of the End month the water began covered the earth 150 days and on the 17th of the 7th mouth the arc came to rest on Met. Ararat. There 150 days were between the 2nd & 7th mouths, thus then were 30 days to each mouth Of Note 1, p.8: Comp. the commentations? But what does this propose? At the most that in the antidilevian year the months were of this length! But even that is not proved, for one has to strain (twist force) the exercis in order to bring the 150 days to end on the 17th of the 7th mouth making the are to sest on the same day on the mount Ararat which had just been covered 15 culeits! with water. 2 [ Note 2, p. 8: Den Erra l. c. and Adereth Elijahu c. 11. p. 86 Greater appreciation & consideration deserves this appropriate question: Why has Moses not mentioned with one word the form of the year, why does the Bible not give neither the months number of months nor of days while

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dealing with matters far less important Than the Time computation of the order of the feasts, & how come that the intercalation method, the manner in which to adjust the lunar months with the solar year, is so completely passed by with silence ? & [ Note 3, p8. Comp. Den Esra Introduction in his commentary to the Pentateuch and Exed. 12:2. In any case finds m the word Dry's Esth. 9:22 an indication (allession?) to the intercalary mouth. It cannot be denied that these questions & objections are justified; Considering, however, that the lixation of the beginning of the months of the intercalation is not a matter of everybody's affair & that therefore, since the Bible as a book for everybody, the Bible councit develop chronological principles (+) he shall and must calm himself with the allusions (indications) given in the Scriptures. [ Note 4, p.8: In his Mos. Law John D. Digitized by the Center for Adventist Research

Michaelis has given special attention to this matter, and as we agree with him so completely we must no miss to quote him here, He says in II, 169: " Assuring the Egyptians Rnew as early as in the time of Moses of a solar year of 365 days & calculated in the way Diodorus Siculus in Upper Egypt describes it, still This solar year was much too faulty for a law giver to introduce it instead of the old lunar year. It is true the continues, that God who rent Moses as lawgiver to & Irraelites of deigned him worthy of direct revelation, already at that time knew the length of the solar year much more exactly than a mortal being shall ever calculate it, thus he could have revealed to moses the solar year as exact as we never shall find it. But it is not bod's way to act, he leaves it discover philosophical & mathematicae

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treeths, of He would not be kind, not like a father who wishes to educate His children of teach them to think if He made known to them through a prophet the real length of the solar year or similar truthes which they could find themselves & which would not be necessary to them right away .... So here the greatest wisdom was to note & to know that the rolar year known up to then was faulty, indeed very faulty, I not to introduce a solar year but leave His people with the lunar year which is sufficiently marked in the sky to let them correct it if possible i bring it neaver to the rolar year. This is what Moses did. He could not take as a measure a proper solar year in order to correct by it the criequiarities of the lunar year, but he made use of an economical solar year which never allowed a mistake of whole mouth without correcting it, & which any farmer could understand get acquainted."

Salwarz - 20 To be sure, the form of the year is not given anywhere expressly), yet in spite of this it is an established fact that Moses introduced the bound (?) lunar year. The circumstance (fact?) that the feasts of the Israelites had to agree with the reasons of the year makes this an unshakable Evidence. With a free lunar year the Passah feast which comes in the month of the ears (of com) as well as the horvest feast which comes in the autumn mouth would make the sound through all reasons of the year within a period of about 34 yrs & would thus have the to love its real character. If you only admit that win means the lunar month & 1720 as a repetition, rotation means the solar year, you cannot but understand the words ראשון הוא לכם להרשי השנה (ציבול והרשי השנה a way that the your must not begin neither with the 12th nor with the 2nd mouth & that accordingly as often

Selwarz - 21. as spring begins towards the end of the first month as mouth is to be intercalated. [ Note 1, p.9: That not 10 or II days were inserted after each year can be concluded for the simple reason because by it the character of the lunar mouth (is annulled) as a matter of fact & would be we cannot possibly pileture a bound (?) lunar year with an appendix of several days as unagined by hevisohn (History & and System of the Cal. p. b. ] I buly by such a procedure could the full be celebrated on D'DKT WTT and the feast of tabernacles 77207 7783 at the expression is end of the summer - as correctly mader. stood by the Jer. Talmud 1 Note 2, p.9: Rosch hasehanah 1,27 And that this method really was followed is proven by the circumstance that the months were had names refered to the seasons of the year. It is true, we find but three such names of the mouth: 717 77 mouth of splendour ( 5"54) 1 K. 6:1,37, Digitized by the Center for Adventist Research

Selwar - 22 rivers (streams?) ("YWI), or according to Johlsohn month of autumn 1. Kings 8:2 and 515 177 rain mouth (110770) 1Kings 6:38; surely all the others had similar names, only being less important they were not preserved (retained! perpetuated?) From 1 Chron. 27 where the couptains of the (2.10.) Rings' lody guard for all twelve mouths of the year are named it is just as difficult to prove that the intercalary mouth was not known than to prove from the Valued the existence of such a mouth with 1. Rings 4:7. It goes without saying and needs no prove that the months of this spach period began with the execut becoming visible since this was the case with all ancient peoples who had lunar moulds. It appears however, from 1. Sam. 20:27 that already in the most ancient time as aften as on the evening of The 30 th day no moon was visible two days were as with us between two newmoons there were 28 days, Dized by the Center for Adventist Research Selwarz - 23 [Note 1, p. 10: Synhedrin 12.a] [ " 2, " : Gatterer in his zeal goes too far (1.c. 145) when he asserts that the Jewish mouths at all times had 29 and 30 days alternately for since the visibility of the new moon depends on the position of the ecliptic against the horizon, it cannot be determined in advance that one or the other It is just as possible to have two full mouths follow each other as for two insufficient. ] hater chronologists who do not like to miss a regulated (adjusted?) intercolony cycle (in the Bible) have Sound such a one after long rearching in the Jubilee period. Without going into a details of the different hypotheses set up (!) on this subject we merely want to state here that the julilee period consists either of 49 or 50 yrs. according to whether the 50th year is Counted as the first of the Record
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Selwary - 24 or as the last of the first jubilee period i. e. according to whether the 56-th or 57th is a Sableath year. | Note 3, p. 10: We refer here to zuckenmann's essay "bleer Sableatjabrcyclus + Jobel periode" of where the different opinions + hypotheses are frightly (?) presented. I Those who have found in the Jubilee period Castronomical moments features) like (or as well as?) in Sabbath year cycle all adhere to a 49 year period. Frank & who acquired ments with (by!) his investigations made in Chronological as well as astronomical regards on this period set up a hypothesis which culminates in the following sentence: Cyclom jobeleum esse astronomiciem et totius chronologiae fundamentern. He assumes that in each Julilee period 18 months were intercolated i. e. every two or three years one 30-day month. He proceeds as follows: One civil lunar year = 354 days

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One Julian solar year = 365 days 6 hours. 48 such lunar years = 16,992 days 18 months at 30 days 540 "
48 Julian solar years = 17 532 days 10 intercolony days of the 7th m = 10 " Total 17 542 days The Julilie year = 354 " 49 natural fordinary 3/ solar yrs= 17896.d: 20 hrs
50,5 " lunar " 17895d 12" Epacta of the 49th year = 1d 8 hrs. [ Note 4, p. 10: In his " Novum zystemia chronologiae fundamentalis cyclo jobeles biblico detectae; he is followed by Gatterer in his "Alvins d. Chron." (Com-pendium on Chronology) ] Frank considers the 49 th year to be the Julilee year and he explains the coincidence of the Julile year with the Sabbath year by connecting the expression 720 found in the Julilee low with the beginnings of the year as customary with the Israelitic (Jewish) people. In his opinion the intera

Ichwar - 26 calary & Julielee years were not ecclesiastical years beginning with the month of Nisan at the harvest time but rather civil years beginning with Jishri, the reed time. Thus the years of the Sabbath year cycle of the Jubilee period began in The middle of the ecclesiastical year? [ Note 1, p 11: Accord to hevit 25:9, the Jubilece year begins with the Day of Stanement. Comp. Alerah, hanasi Sefer haibbur 3; 1.7 1 Note 2, p. 11: Accordingly Frank translates her. 25:10 +11: sanctum habeatis annum anni hujus quinquagesimi and: annum quinquagerimi hujus anni sit volis jobeleus. Comp. Zuckermann l.c. 16. 7 now at the end of the first Juleilee period the artronomical Vlunar years against the rolar year (is 32 hours behind), however by computing these epacts for 152 Jubilee periods you really balance the two sorms of years.

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Solway - 27 [ Note 3, p. 11: Consequently, in 152 Jubillee years 2743 months must be inserted. Even so this does not exactly balances it, for at the end of the 152 Julilee period the lunar year is gotten ahead of the rolar year by 7 days, and this difference can be bealanced only in the following periods by interculating instead of 30-day months (29-day months) 7 Juskermann who also assumes Oa 49-year Julilee period though with Rebuda he does not make the Julielee year begin with the 7th Sableath year but rather (with the 1st year of the 8th (lets its coincide) Sabbath year Cycle in his well known work has made still more exact investigat ions as to the relationship of the Jubilee period with the astronomical balancing of the different forms of year & how made the newest Vlatest data the leasis of his hypothesis. According to the latest I Note 4, p. 11: Nedarin 16a. 4 parallel texts I

Schwang - 28 solar tables of Hansen & Olufsen p.12) the length of the tropical year amounts to 365d 5h 48 " 46,15" The length of the rynod lunar yr = 354 d 8 h 48' 32" 26,94" 17896d. 206 49' 41" 21" thus 49 trop. solar yrs = 17363.d 236 38' 30" 3" 49 synod linar "= The epact of there 49 salar 4 lunar yrs = 532 d 21 h. 11 " 18" If you deduct 18 synodic months of this difference there remains the exact of 1d. 7h. 58' 22" 38" which is almost completely lost after 133 periods which have 6 intercellary months more than usually 2. [ Note 1, p. 12: Zuckermann has over looked here one thing, i.e. that the tropical rolar year as well as the synodic month are not stable (1) but changeable quantities. With regard to the roler yo we would here say but briefly that the precession un according to which the the fring point goes back annually by 50", 2113 m consists really of two parts. Due to the disturbances the earth suffers from the planets the

ecliptic approaches the equator in every century by 48", 37 while the spring point advances by 16", 44. Thus the precession proper amounts to 50", 3757 + becomes smaller by 0", 1644 solely through (thanks to) the influence of the planets on the earth. This latter is no constant quantity & therefore ( for this reason) the tropical year is changeable. As the teory shows, the tropical year 3040 B.C. was the greatest, i.e. by 38" greater, and in the time of Hipparch, 140 B.C. only about by 14" greater than the mean of you figure in this way the length of the tropical year in moses' time, it amounted to 365d. 5h. 48' 59", 51. As to the length of the Rynodic month it must be surpharized here that the movement of the moon is accelerated by timin reduction of the eccentricity of the course of the earth, thus making the mouth becomes shorter. haplace has expressed most minutely this decrease (waning?) by his famous formula of t

Schwarz - 30 represents the centuries elapsed since 1800 then the way the moon covers in the Rynodic month becomes smaller by 10",7232 t2 + 0" 01936 t3, or the length of the synodic mouth will be shorter than the epoc year 1800 by 21", 1113 t2 + 0" 038114 t3. With the kelp of this formula we now can calculate (figure out) the mean length of a synodic mouth out of any century by inserting (using!) for t t + 1237 -t (1237 = synodic mouth). Mores led the Israelites out of Egypt 1495 B.C. consequently we can take t = 33; naturally here it is - being prior to the epoc year, & the formula would take the following 21" 1113  $\left( (33\frac{1}{1237})^2 - 33^2 \right) - 0"$   $038114 \left( (33\frac{1}{1237})^3 - 33^3 \right) = 21"$  1113  $\left( \frac{2.33}{1237} \right) - \frac{1}{1237} = \frac{1}{1237} =$  $0'' \circ 38114 \left(\frac{3.33^2}{1237}\right) = \frac{1393'' 3458 - 200'' 7464}{1237} = \frac{1192'' 5994}{1237} =$ 0" 964106 = 57" 846360. That much the mean length of the synodic mouth was greater in Moses' time than in the year 1800. So it was 29d 12h 44' 2"50", 188+ 57",85 = 29 d 12 h 44' 3" 48"1038. ] [ Note 2, p. 12: A peculiar hypothesis we find in the orient 1850 p. 536, "Ezipser

Schwarz - 31. " would have found a brand new form of the year for the Biblical Time if only tradition were not against it! Add to the regular lunar year of 354 days the ten days until the day of Stonement of the lunar year is Calanced with the solar year. As 364 days amount to exactly 52 weeks, is has the combined advantage that like the Sablack, all other feast days too have a & definite week day. The solar year, however has 365d. 4 consequently to seven years it is one whole week: Therefore the intercalary year of one week ( sie! But the solar year has yet a few more hours etc. and that, as accepted by Continuation in ring note book. p. 14. ) L.3. . . Neither one nor the other hypothesis is probable, not tranks because it is still very doubtful whether in Moses time they had a fixed year, in Egypt, to say nothing of a Julian solar year; not

Seleway p 14 cout'd zuckermanns because you cannot make the astronomical data (dates?) of today a leasis for the mosaic institutions. In those days when the month began with the visibility of the moon of the consequently the time reckoning defended absolutely on observation there could be no talk of a definite length of the synodic moull. And because everything was based on observation there was no need for an intercalary cycle ruled by formulas. Moses did not want to introduce neither an astronomical lunar year nor a rolar tropical solar year as leases for time reckoning but rather an economical year combined of both of with such a one there was no need for astronomical collectat computions. Every farmer at could know at the end of the 12th mouth whether

Delivar 14 cont'd. the barley would be sufficiently ripe in 14 days in order to have a sheaf for the Omer, & according to this measuring rod of the season of the year the coming month was either the 13th of the last or the first of the next year. It is evident that here is no deception was possible, as for just Verres in Sicily once performed it. The seasons of the year themselves would have become witnesses to ainst the priest who would have dared ruch a deed the reasons of the yor themselves would have become witnesses in order to accuse him of transgressing of the most holy law. In the first epoch of our of the different forms of the year could not really take place; the trallitie lunar you had to remain fluctuating as compared with the tropical solar year; for in the ordinary Digitized by the Center for Adventis Research.

p. 14 cout'd year it was loor 11 days shorter + Vin the intercalary year again it was 18 or 19 days longer; however, 365 economic years agreed) with 365 tropical rolar years but for a hifle.

Schwarz (2.37-lower past) 2.28. There is hardly another point in our history on which opinions "differ so widely than on our calendar. The greason for it is in the regrettable fact that the Talmud passes over the The Hillel's reform with silence and do not mention with one word the great difference between our present of the former calendar. p. 38 This silence has also been differently interpreted + utilized so that some aseriled claimed a biblical age for the calendar while the others consider it an innovation origination in an after a posttalundie epoch! Laadjah baon + after him Chananel ben Churchied men, whose merits for yevery connot be impaired? by anything, in their geal in defending the rallinical institutions went so far as to assest: the constant calendar is a creation of Moses, the determining of the new moon
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Silvaz p.38-contid with the help of the testimony of witnesses was not introduced until the frictions between the pharises of Saddweet had increased of & even since that time the mean reckoning (computation) used today remained the preponderant & decisive one. We of this assertion; Maintonides Ilen Esra, I to its merits + proved from the Mischnel & 4 the Talund how unterable this assumption is; likewise has it been proven by the Karaite Eliah hadassi 4 by Asarjah de Rossit that in the biblical epoch the Dechijoth was not Ruown. Mainumi & & Den Era advocate a second opinion; they assume that the theory of a constant calendar is a rinaitie tradition in case the determining of the newmoon by observation should no more be possible. Digitized by the Center for Adventist Research

Schwarz p. 39-cout'd the calendar was introduced in the time of Abaji & Raba. Mote 1, p. 39: De Rossi contends the traditional interpretation of the words of Mainuni's l. c. ראיבא סנהרין קועין על פי הראיה ובומן שאין שאנו מהשבין בו היום. רלבה למש היא שבונין . סנה דרין קובעין שים החשבון In his opinion the words "" 5"17 refer merely to the first part of the sentence. Mainnini only meant to say that in the time of the Sanhedrin it was the rule to make the true conjunction but today we may go by the average? 1) movement of the sun of the moon yet in no wise is this procedure to be traced back to a simultie tradition. ( magnef lekesef p. 59.) Nachmanides meets this assertion with the remark that the constant calendar could can

Selvarz 5.39-cont'd not possibly be a 'D'D\$ 7737 for it is nowhere mentioned in the Talmud. Of the same Opinion are Serachjah halevi 4 Israeli, only with regard to the time of the introduction of the colendar they differ widely. According to Machinamides Hillel I was a son of Rablei, according to Serachjah halevi of R Juda T. With Israeli we find two contradictory statements as to the introduction of the constant calendar. Once One time he gives for it the year 4260 + another time though not expressly but indicating it, the year 359 d.g. 3. (Greek timereckoning!) Asarjah de Rossi accepts the latter statement as the right one because it agrees with those of older authors, otherwise he would have given preference the Somet because then the not mentioning of the calendar would have been

Selevarz 6 39-cont'd based (proven!) by the Talmud . So the opinions on the calendar differed widely from earliest time; when later the chronologists noticed the difference between our Wolad & the astronomical mean idian conjunction, they became in doubt also as to the meridian on which A the whole calendar is made I [built up?]; it was more of more pushed back to the east of mittel I sinally in our time, attention being drawn to the great differences of our calendar, the conclusion (result) was repulsed based on astronomical investigations that the Tekupha of R Adda on Which the calendar is leased, dates leach from the 10th century. The representative (advocate?) of this bold idea is Mr. Ch. S. Slovinski In a chain of original + spirited (ingenious !) works 2 Slavinuski has set up a hypothesis, the essential

Note 2. Compare Toldoth hoseliam. p 59-64. Kerem chemed V. his correspondence with Reggio, ilid. IX his correspondence with Princes, houjoual. p 1-17, his Lesode heilbur Hamagid of 1863 - 1864 and features of which we shall compile as follows. -( Mote 1, p.40: Already Maimonioles that our ealendar is not regulated established on the Jerus. Merid. For if you compute the astronomical conjunction with the help of the sport stated in Rid. hach. c. 11. ff. you find that already in Main. time it was 14 17' before the Molast. This difference not mentioned with one word by Maimonides, he could explain to himself only with the transfer of the meridian. Comp. Jes. Clam 4,7; farthermore different Views De Rosse. Magref lekeref given Vey Digitized by the Center for Adventist Research

L. 14. The length of the synosian mouth was found by trousforming the sexistimals as given by Ptolomans unto ordinary fractions, and this is the real reason for 2.17. The Moles Bharas was found to be 29 days 12h 793ch bosed an computation of the lunar months be -Leveen the era of Ptolomans, Molad Nison 747 B. C. and the beginning of our ero, and like unte the first Tekupha of Sound was found by stording with the overage length Of The sun at the fine of Holomans and figuring the year's book words at 365 days 6 hrs. L. 23. But when Sound did not accept the length of the year! tropical year to be 365 d 5hrs 55 /211 as did Ptolomans, then this was solely becouse, dividing the year with four equal parts, he was so much less conserved about the Shifting

Page 40. of the tekuphath, since he could see that the Tekuphoth would coincide alternatly and progres = sively with the solstices and the equiproyes. Tage 41. L.1. But # Guchadsol's to admitted order of intercolation remains unexplained; & for though we might disregard the deviation of the Tekuphath Tischri from the rule of intercolation as given in the Tolmund (Note), since this supposedly is not valid for our

ero, still it is not possible to recoucibe the Tekupho, which in the 18. year of the cyclus follow on the 18. Nisson with the principle of the Tolumb:

L. 8. In spife of all this Slowinski rejects the view of all later Digitized by the Center for Addentist Research

Note 1. Syntedrin 12

Chronologists, that the Addaeou Tekupha is the bosis of our co. lender, become according to his surpression the socaled Tekupha of K. Adda bor Ahoba dates from The XIO. century (A.D.) First holf of the L. 12. Neither in the Tolumos and Midroschum, nor among the ald chronologists is there any trace of this Tekupho, nor is its on bearer mentioned anywhere in connection with the colendar Dystein, Jurthermore the + / (Note 2) conciled / (Mate 3) charged be ne and (Note3) darling from the folumbian period, count be reconciled with this view, and, most important of all, finally it is apposed by the fact that the Adacon Tekypho at the time of the colendar. reform was three days away from The equition by the Center for Adventis Lesearch Strees.

Page 41. 2.21. First The chronologists of the 10. century found, that the Molas Nison oraces of the ouset of the cycle according to the albotomian occurate observation occured at 9 hours 642 ch before the Molas and that the order of intercolation because of the complete adjustment of the different types of years within the cyclus did not contradict the talumdian principle, as previously supposed but rather agreed fully withit. L. 27. This striking agreement lead to the supposition that the colonidar had been founded on this length of the year, and thus originated the watchward: L. 30. The name of this new Tekupha is derived from an alternote version of the ancients. L. 32. According to them it was not R Huna but R. Adda bor Adin (Note 4)

Page 41. who proposed the principle of the 16. Nisons and certainly the Addrew Tekupha originally ment nothing other than the Te kupho corresponding with the principle of Ada; first later the words were added, and thus arose the misunderstonding, that the contemporary of Somme He formous and Amoreon, who often is mentioned in the Tolumb has invented this tekupho, while actually R. Hosson hadajou is the real inventor, who, as we see from those of his writings quoted by Is = raeli (Notes) for the first time discovers by his own observations as well as by the astronomical tables of Alba= four discovers the correlation between the order of intercolation and the principle of the Tolund. Note 4. Obodjoh to Kid. hosch. 10 and in # Sachs's Monuscript of Desod Claus Page 42 Lesod Clam 4:14. Note 1.

Page 42 L. S. But this hypothesis of Slominski was apposed (or disproven) by S. H.M. Princes (Note 2) Note 2. Kerem Chemed My and IX hamaged 1863 -1864, Kobok's Deschurun 1857-1858 jo Shortly after the publication of the correspond ence bedween Slowinski and Keggio, Timbes expressed his doubts, but peculiar by enough his letters were not made public till 4 years laker in Kerein Chemes L.7. We shall briefly state the latter's hypothesis in its outline as follows. L. S. Tiniles agrees with Slowinski that neither the Tekupha nor the name of K. Ada appears inconnection with the colendarquestion in the Tolumo, but that this is no orguneut for silence; for the # fact that the calendar and its principles are not mentioned in the Tolumo is explained by the circumstance that our anxious

Page 42 who regulated the collector 34 years after the Niceau Coucie, sow to it that no stronger and autsider should be initi= exediuto its secrets, principles. L. 15. The founders of the colendar thought Secrecy, in order to protect the about Loge over Christianity which Ludeism had as a result of the regulated order of festivals. (Voke 3) Note 3. p. 211 L. 18. The Constant fixed colembar is undoubtedly based upon R. Adda's Tekupho because it count be assumed that Sommel's tekupha with its cyclus-excess of I hour 485ch could be taken as the basis of a permanent chronology. L. 22. Why Should there have been taken less precontions at the institution of a fixed colember thou at a time

Page 42 when only one intercolotion was involved! 2.25. The Tekupho of R. Adda which Does not originate with but with a chronologist by the some name, was, as is clearly sor deuced by the V words of Isak B. Baruch (bei = in?) Her. honasi, was known sereory long before R. Hosson. Note 4) Note 4. Sefer hordbur p 94 From this it is seen that the at least over tuoion 1-2 years before Hossow; in general, the fact that Soogah and Hoi know nothing of it, does not prove anything, for L. 28. Obosjoh's version might not at all be reliable, for there did not exist on Amoreon by the name Ada bar Abin; only once (Node 1) does this Digitized by the Center for Adventist Research Page 42 possage (Note) it is clear that it. Should read Idi b. A.; but he could not have more the colendar rule becouse le was not a Pelestineinite. Note 1. Keritath 2/a Note 2 Jours 746. Debarnoth 25a. Pesachin 1016. Boto Botro 33a. Gittin 89a Chalin 978. L. 4. The Tekupha of R. Ada were also written in a Boroitho as Chagia (Note 3) and Abr. houssi (Note 4) relate, and for that reason alone count be an invention of the 10. Note 3. Kid. hochod c. 10 Note 4. Sefer hoibbur p 57 L. 7. But as regards the astronomical side, there is no difference whatever in the time assuming that the true Tekupha is the boxis of the colludar.

L. 10. Only in report to the Conjunction was preference given to the average motion, because the moon is exposed to formony disturbances to allow the true Molos to be computed so easily, while for the Tekupho, where the Season always was of importance, the founders could let it be with the true movement of the sun so much more since according to their supposition the equation (=formula) of the solar orbit is an unchanging value (a constant). L. 16. In the year 497 the true Tekufoth Visou was exactly Thrs 642 ch before the Molad and in the year 364 oproximally 5 hours after it; therefore, if not too great occurrey is required from the founders of the colembar, the view may therefore be mointained that the fixed colonder was introduced about this Line. We have permitted these two 2.22.

hypotheses to follow each other in =
mediatly, in order not to have to repete
the objections against Slaminski, s as =
sertions.

L. 24. For two reasons his viewpoint
in invenable, for one because it remains inexplained that the familiers
took the middle (average) length of

in invenable, for one because it remains inverplained that the familiers
took the middle (average) length of
the mouth from the Ptolemeans but
not that of the trapsical year, and
secondly because the order of intercolotion of our cyclus which deviates
from that of Meton - which is arcaic
- count just be socidental.

L. 29. But also Piniles's hypothesis rests on an assumptions, which we connot accept.

L. 31. Piniles favors the view that the Calender was introduced in 497 because he believes that the bearer of this Tekupho could not have been R Ada lear Ahaba but only a later Chro-Digitized by the Center for Advents Research

mologist, and because the true Te = Ruphoth Vison 497 appeals more to him thou that of the year 3.64. L. 35. But the formous Talumd scholar as well as the mothemoticion Piniles has overlooked two factors. Page 44. L.1. The name R. Ada bor Ahaba does to be sure appear in connection with the colembar question namely in Erochin 98. L. 3. It is he who expresses the bold view that the sustitution need not Obsolutly be leased reprou observation Note! Compare Kiduschin 22; sin Erochin 98 the correct version is L. S. In regard to the astronomical problem (or phase) we regret to have to occuse both Slownski and Piniles of an incouracy. (Note ?)

Note 2. Slowinski is furthermore quite inoccurate in his computations thus, to give an example, he gives the difference between the Tekupha of Adda and the mean astronomical at 48 2 hrs. 32 (Toldoth hascham p6/8) and Byears later ( V, 106) again 38. 23h 35 when it should be larger. But 42 2h. 321 is not right either for the difference still larger Thou 403h. L. They both consider the tropical year to be a constant and lease their computations upon the present length of the same. L. 9. But that is not correct; the trapical year was in 359 10"26" larger thou at the beginning of our century. L. 10. Cousequently we must compare the Tekupha of Adda with the mean of 36585h 48' 50" 49" and 365 85 5 5 5 4 2 2 4 9 1 Center 11 A/3 - 11 1 Research

L. 13. Adda's year is 6'29"124" longer end if we compute this excess for the time Since 359, then we find that the difference between the astronomical tekupho and that of Adda must ammount to 6 days 194.32 52 48111 L. 16. The true Tekuphoth Wisou 5632 will be observed in Serusolem on March 20 at 9 46 = AM and the Adda con takupha on March 26 at 232 == P.M. L. 19. The difference ammounts to 6 8 4h 45'47" 44" in other ward 14h 47' 5" 4" less than it should. L. 20 But considering that before 15/2 years ago the true lekupha occurred much earlier than the average thou is the case today, and that our ancients did not have sufficient mesus whereby to make accurate observations Then it may be admitted that possibly
Digitized by the Center for Adventist Research our collendar was introduced with the L. 26. This possibility however becomes a great probability by the traces which point to the existence of the Addason Tekupha long before the introduction of the colewar (Note 3) and by the accurate correlation of our order of intercologion with the tolumbian principle of 16. Vison. Note3. compare above p. 33, 34 and p 36 note3. L. 30. The fact that the Adda's Tekupha is not mentioned in the Tolumo con no more be a proof for the later origin thereof, thou the nonmentioning of the colembar is for its past-tolumien Page 45. L.1. The Dechijoth prove irrefutably that the average colculation was introduced by Hiller II. L.2. In a chronology which follows the frue movements of the Sun and Digitized by the Center for Adventist Research

the moon, the weekday of the date of the fixed once and for all. This proof 2.5. This proof is so strong that even counter-proofs such as they Seem to appear in the Tolum (Note 1) count refute it. Note / Oppenheim proposes to drow evidence from the talund that the later Amoreous did not know the fixed colendar. The principal possopes are Bega 22 & and 6a. In the first place is found a debate be -Lween Americand R. Aschi, whether it be permissible to point (make-up) the eyes on the second day of the new year's festival. Amount allows it, not as Oppenheim thinks, because Elul at the Line was in = complete, but because te accepts the view of the Nehardees who justify their alleviation by claiming that Elul never was complete. Wherever

Page 45

This view is quoted, it is accompanied by the argument and it is lastly possible - but not at all necessary - that the words p. 228 are a later addition. Regarding the Erub Tasschilin, which Robino Rod forgotten to make, the possage is given full recognition by V. Landan in his commentary to Beza and it has been made quite clear, what Oppenheim's criticism of Gratz has been silently disproven in the second edition of the 4 volume (Monotsschrift 1856, 1857) L. T. The need of a fixed colember was not as coe have seen more thou just day-old; in Judea it was seen that the time granully approached when this means would have to be opplied, and preparations were more lest a rule less, confused order of festivels take

nology.

the place of the now untenable cho-

Page 48. L. 12. Perhaps we shall never a scover the reasons that lead our oucients to secretioness of the principles of the fixed coleman, but of that reason we need not think, that there was nothing to be kept secret and that the coleman was introduced after the end completien of the Tolumo. L. 17 The socolled silent proofs from the 'lolumo are just as unhenoble 'as the hypothesis of Slowinski and Timiles, which, regarders of how intelligent they may be, already must fall because they do not take notice of the change in the tropical solar L. 21. We stay by the tradition of R. Hoi, because nothing con convinceus that the average suration of the synodian month was seenrolly known at the end of the lost ero.

L. 24. Hereby perobobly the knowledge of the decrotion of the tropical year was brought about; for the first eclipse of the sun afforded the op portunity to compute the Molod Bhoroo, and like unte as ero for the Ada's Tekupho was determined by sirect observation, 2.28. The ero to has been fromfered from the Tekupha of Adda to that of Sound which at the time of the colembarreform differed aproxi= mothy & days. Page 46. L. #3. If Guchadsot's order of intercolotion were directly derived from the ero and from the principle of the 16. Wison. L. 4. Then these principles are sufficient to effect a well rounded system; but the Deahijoth were added in order to aring this very system closer to Digitized by the Center for Aventist Research

Page 46 the old chronology L. 7. How now the fixed colendar grew to become a unified complex from these principles, might be shown by the system of the Dewish colember

Schwarz 1. Epoch. From Esra until R. Juda I. As in the first in the 2nd epoch too the month begins with the visibility of the creseent in the evening wilight. Thus here too, can be no talk of a fixed length of the month, for the calendar goes by the true elliptic course of the sun of the moon, of besides because the time between the true conjunction & the visibility of the moon (5.15) depends on too many different factors (in order) to be even (uniform!). But the method of observation is much more strict than in earlier lime. While in the Biblical epoch new moons & feast were established (set?) however the phases of the moon it demanded, in the hud spock the fixation of the beginning of the mouth was regarded as afract of to be preceded by a hearing of witnesses. In all probability already the great Synagogue hat made the arrangement (instituted?) that the new

Selwarz p.15 cont'd - each other were observed in the evening twilight in order to determine precisely the length of one or the other mouth, & after a row (chain number) of such observations to divide the sum total of the recorded days, hours etc. by the number of the mouths in order p.16 to learn the length of the month. Its must not be forgotten however, that - no far as its limit (border) was not the conjunction but the visibility of the first strips of the moon - this month was essentially different from our present month & that in order to find the real mean length of the Synodic month, new calculations wer necessary since the time between the stated limits (borders) is depending on the position of the exliptic in each special case. However fragmentary (showing gaps), therefore, the recordings the Sauhedin made from the not statements of the not always quite dependable witnesse,

Schwarz p. 15 cout. moons - at least those of the two feast mouths Misan + Tishri - are to be set by observation + the statement Note of witnesses worthy of belief; we are all the more justified to make this assumption as we must hold that our ancients had to recognise this method as the most appropriate means to find the length of the month. And for this length they were looking if for no other reason because in times of prevented impeded or insufficient observation they were dependents on it In our opinion it is therefore superfluores even imjust to send our ancestors to Chaldeans & Greeks & get their astronomical knowledge from abroad since they did have an institution at home which was bound to produce almost sure results though after wearisome (lengthy?) complicated calculations. They only had to know the distance of the meridious under which two new moons following

p. 16 cout may have been still it is not Note surprising when R. Gamaliel thought he could pass on Etradition) the mean length of the synodic month as a fixed result Besides, we cannot help Note silence governing the calendar council in the fact that due to appropriate + rightful prudence no final result was to become public of that only for this reason only discrete men were made L/6 From l.16. -> Page 37 L. 27

Jewioli Jüdische Kalender adolf Gelmourg Breslau, 1872



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