have originated in India. They are mentioned only as stars in the earlier parts of the Rigveda, then the names of three of them are found in the latest parts of that Samhitā, and finally in the later Atharvaveda and in the Yajurveda Samhitās the full list appears. It may also be noted that the Vedic Indians show (see Graha) a remarkably small knowledge of the other astronomical phenomena; the discovery of a series of 27 lunar mansions by them would therefore be rather surprising. On the other hand, the nature of such an operation is not very complicated; it consists merely in selecting a star or a star group with which the moon is in conjunction. It is thus impossible a priori to deny that the Vedic Indians could have invented for themselves a lunar Zodiac. 157

But the question is complicated by the fact that there exist two similar sets of 28 stars or star groups in Arabia and in China, the Manāzil and the Sieou. The use of the Manāzil in Arabia is consistent and effective; the calendar is regulated by them, and the position of the asterisms corresponds best with the positions required for a lunar Zodiac. The Indians might therefore have borrowed the system from Arabia, but that is a mere possibility, because the evidence for the existence of the Manāzil is long posterior to that for the existence of the Nakṣatras, while again the Mazzaroth or Mazzaloth of the Old Testament 158 may really be the lunar mansions. 159 That the Arabian system is borrowed from India, as Burgess 160 held, is, on the other hand, not at all probable.

Biot, the eminent Chinese scholar, in a series of papers published by him between 1839 and 1861, 161 attempted to prove

187 Max Müller, Rigveda, 42, xliv et seq., maintains the Indian origin of the system. Thibaut, Astronomic, Astrologie and Mathematik, 14, 15, admits it to be possible, as does Whitney, Oriental and Linguistic Essays, 2, 418.

188 2 Kings xxiii. 5; Job xxxviii. 32. 189 Weber, Nazatra, 1, 317, 318; Whitney, op, cit., 359.

160 Journal of the American Oriental Society, 8, 309-334. This was Weber's view also, according to Whitney, 413 et seq.; but Weber himself disclaimed it (see Indische Studien, 9, 425, 426; 10, 246, 247). On the other hand, Sédillot, Matériaux pour servir à l'histoire comparée des Sciences Mathématiques par les Grecs et les Orientaux (Paris, 1845-1849), favoured influence from Arabia on India.

161 Summed up in his two works, Recherches sur l'ancienne astronomie Chinoise, and Études sur l'astronomie Indienne et l'astronomie Chinoise.