

The *Āryashtācata* contains all the leading features of a system the difference of which from the commonly received opinions was known to us from the accounts given of it by many of the Hindu astronomers. *Āryabhaṭa*'s curious system of arithmetical notation is taught in the *Daśagīti*, his theory of the earth revolving on its axis in the *Siddhānta*, and now that we know his date, we know at the same time that a Hindu astronomer had the boldness, as Whitney puts it, to withhold his assent from the commonly received theory. Another remarkable feature of the book is that the lunar mansions or *nakṣatras* are not taken notice of. The only word which reminds us of their existence is *Ācāvayuja*, not referring to the *nakṣatra*, but taken as the name of the first year in the revolution of Jupiter, whence further it may be deduced that *Ācvinī* was the first in the order of the lunar mansions at the time the work was composed.

As yet only the two forenamed works of *Āryabhaṭa* have been recovered, but we may reasonably hope that others will turn up in time. *Albīrūnī* (*Mém. sur l'Inde*, p. 371) quotes a whole passage from *Āryabhaṭa* "le Cousoumapourien," which must have made part of a book different from the *Daśagīti* and the *Āryashtācata*, it not being found in those two. It has been surmised by Fitz Edward Hall that there must have been two astronomers of the name of *Āryabhaṭa*, a surmise which want of materials only prevented him from raising to a certainty. By my possessing a copy of an *Āryabhaṭakṛta-Mahāsiddhānta* or *Āryabhaṭākhyo Mahāsiddhānta*, I am in a position positively to prove the correctness of Hall's shrewd guess. The *Mahāsiddhānta* is an astronomical work in 18 Chapters, and more than 600 verses in *Āryā* and *Upagīti* in irregular succession. The verses are altogether lame and pithless. The author distinctly states that he has written his work mainly on the principles of the "old" *Āryabhaṭa*, and the truth of his assertion is born out, partly at least, by his employing the great *Āryabhaṭa*'s peculiar system of arithmetical notation. He informs us further that he had introduced corrections of his