dates would then indicate periods when the winter solstice coincided with the Caitri or the Vaisākhī full moon. Oldenberg 12 and Thibaut 13 seem clearly right in holding that the coincidence of Phalguni with the beginning of spring,14 which is certain, is fatal to this view, and that there is no difficulty in regarding this date as consistent with the date of the winter solstice in the new moon of Magha, which is given by the Kausītaki Brāhmaṇa,15 and which forms the basis of the calculations of the Jyotisa.16 The full moon in Phalguna would be placed about one month and a half after the winter solstice, or, say, in the first week of February, which date, according to Thibaut, may reasonably be deemed to mark the beginning of a new season in India about 800 B.C. At the same time it must be remembered that the date was necessarily artificial, inasmuch as the year was divided into three seasons, each of four months, and the Indian year does not in fact consist of three equal seasons. The variations of the other datings would then not be unnatural if any school wished to defer its spring festival, the Vaisvadeva, to the time when spring had really manifested itself. See also Samvatsara.

12 Zeitschrift der Deutschen Morgenländischen Gesellschaft, 48, 630 et seq.; 49, 475, 476; 50, 453-457.

13 Indian Antiquary, 24, 86 et seq.

14 See Taittirīya Brāhmaņa, i. 1, 2, 6. 8; Satapatha Brāhmaņa, xiii. 4, 1, 2-4. So the Phālgunī full moon is called 'the mouth of the seasons (rtūnām muhham) — e.g., Pañcaviṃsa Brāhmaṇa, xxi. 15, 2; Kāthaka Saṃhitā, viii. 1; Maitrāyaṇī Saṃhitā, i. 6, 9; and the first season is always spring: Satapatha Brāhmaṇa, i. 5, 3, 8-14;

ii. 1, 3, 1; vii. 2, 4, 26; xi. 2, 7, 32; xii. 8, 2, 34; xiii. 5, 4, 28; Taittirīya Samhitā, ii. 1, 2, 5; Kāṭhaka Samhitā, xiii. 1, 7, etc. See Weber, Naxatra, 2, 352.

15 xix. 3.

<sup>16</sup> Thibaut, Astronomie, Astrologie, und Mathematik, 17, 18.

Cf. Weber, Nazatra, 2, 329 et seq.; Whitney, Journal of the American Oriental Society, 16, lxxxvi., lxxxvii.; Keith, Journal of the Royal Asiatic Society, 1909, 1101-1104.

Cāndhanāyana is the patronymic of Ānandaja in the Vaṃśa Brāhmaṇa.<sup>1</sup>

1 Indische Studien, 4, 372, 383.

Cāyamāna is the patronymic in the Rigveda (vi. 27, 5. 8) of Abhyāvartin.