

THE ELEMENTS OF THE SIX INTERIOR COMETS WHICH ARE MORE ACCURATELY CALCULATED.

|  | Encke.                                     | De Vico.   | Brorsen.                                    | D'Arrest.                                      | Biela.  | Faye.  |
|--|--|--|---|--|---|--|
|  | 1848.                                      | 1844.  | 1846.                                       | 1851.  | 1846.   | 1843.  |
|  | Nov. 26.                                   | Sept. 2.   | Feb. 25.                                    | July 8.  | Feb. 10.                                      | Oct. 17.                                       |
| Date of perihelion passage in }<br>mean Paris time ..... | 2 <sup>h</sup> 55' 56"                     | 11 <sup>h</sup> 33' 57"                                | 9 <sup>h</sup> 8' 1"                        | 16 <sup>h</sup> 57' 23"                        | 23 <sup>h</sup> 51' 36"                       | 3 <sup>h</sup> 42' 16"                         |
| Longitude of the perihelion .....                        | 157° 47' 8"                                | 342° 30' 55"   | 116° 28' 15"                                | 322° 59' 46"                                   | 109° 2' 20"                                   | 49° 34' 19"                                    |
| Longitude of the ascending node ..                       | 334° 22' 12"                               | 63° 49' 17"  | 102° 40' 58"                                | 148° 27' 20"                                   | 245° 54' 39"                                  | 209° 29' 19"                                   |
| Inclination toward the plane of }<br>the ecliptic .....  | 13° 8' 36"                                 | 2° 54' 50"   | 30° 55' 53"                                 | 13° 56' 12"                                    | 12° 34' 53"                                   | 11° 22' 31"                                    |
| Half major axis .....                                    | 2·214814                                   | 3·102800   | 3·146494                                    | 3·461846                                       | 3·524522                                      | 3·811790                                       |
| Perihelion distance .....                                | 0·337032                                   | 1·186401   | 0·650103                                    | 1·173976                                       | 0·856448                                      | 1·692579                                       |
| Aphelion distance .....                                  | 4·092595                                   | 5·019198   | 5·642884                                    | 5·749717                                       | 6·192596                                      | 5·931001                                       |
| Eccentricity .....                                       | 0·847828                                   | 0·617635   | 0·793388                                    | 0·660881                                       | 0·757003                                      | 0·555962                                       |
| Period of revolution in days .....                       | 1204                                       | 1996   | 2039  | 2353   | 2417  | 2718   |
| Period of revolution in years .....                      | 3·30                                       | 5·47   | 5·58  | 6·44   | 6·62  | 7·44   |
| Calculated by .....                                      | Encke,<br>Astr. Nachr.,<br>xxvii., p. 113. | Brünnow,<br>gekrönte<br>Priestschrift,<br>Amst., 1849. | Brünnow,<br>Astr. Nachr.,<br>xxix., p. 377. | D'Arrest,<br>Astr. Nachr.,<br>xxxiii., p. 125. | Plantamour,<br>Astr. Nachr.,<br>xxv., p. 117. | Leverrier,<br>Astr. Nachr.,<br>xxiii., p. 196. |