

Ceva, Tomasso | Encyclopedia.com

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(b. Milan, Italy, 20 December 1648; d. Milan, 3 February 1737),

mathematics.

Tomasso Ceva came from a rich and famous Italian family; he was the brother of Giovanni Ceva. In 1663 he entered the [Society of Jesus](#) and at an early age became professor of mathematics at Brera College in Milan.

Ceva's first scientific work, *De natura gravium* (1669), deals with physical subjects—such as gravity, the attraction of masses for each other, [free fall](#), and the pendulum—in a philosophical and even theological way. (For example, several pages are devoted to the concept of the *spatium imaginarum*.) Ceva wrote the treatise in two months of steady work; in his “Conclusion,” he asks his readers for emendations.

Ceva's only truly mathematical work is the *Opuscula mathematica* (1699; parts were published separately in the same year as *De ratione aequilibri*, *De sectione geometrico-harmonia et arithmetica*, and *De cycloide; de lineis phantasticis; de flexibilibus*). The book is discussed in *Acta eruditorum* (1707); its particular importance is that it is the summation of all of Ceva's mathematical work. It is concerned with gravity, arithmetic, geometric-harmonic means, the cycloid, division of angles, and higher-order conic sections and curves. It also contains a report on an instrument designed to divide a right angle into a specified number of equal parts; this same instrument was described in 1704 by L'Hospital—who makes no mention, however, of Ceva.

Higher-order curves are also the primary subject of an extensive correspondence between Ceva and Guido Grandi. Ceva proposed the problem; Grandi reported that such curves had well-defined properties. Grandi replied to Ceva's questions not only in letters, but also in a work on the logarithmic curve published in 1701 with an appended letter by Ceva.

Ceva's contribution to mathematics was modest; he is perhaps better remembered as a poet. Although some of his verse is mathematical and philosophical, he is best known for his religious poem *Jesus Puer*, which went through many printings and was translated into several languages. The German poet Lessing called Ceva a great mathematician as well as a great poet, while Schubart, writing in 1781, considered him the greatest Jesuit poet-genius.

BIBLIOGRAPHY

Ceva's mathematical and scientific works are *De natura gravium libri duo Thomae Cevae* (Milan, 1669); *Instrumentum pro sectione cujuscunque anguli rectilinei in partes quotcunque aequales* (Milan, 1695; repr. in *Acta eruditorum* [1695], p. 290); and *Opuscula mathematica Thomae Cevae e Soc. Jesu* (Milan, 1699), discussed in *Acta eruditorum* (1707), pp. 149–153.

Other works are *Jesus Puer, Poema* (Milan, 1690, 1699, 1704, 1718, 1732, 1733), translated into German (Augsburg, 1844), French, and Italian; *Sylvae. Carmina Thomae Cevae* (Milan, 1699, 1704, 1733); and *Carmina videlicet philosophia nov-antiqua* (Milan, 1704; Venice, 1732).

Ceva's correspondence with Grandi is in the Braidense Library (eight letters) and the Domus Galilaeana, Pisa (485 letters).

An important secondary source is Guido Grandi, *Geometrica demonstratio theorematum Hugenianorum circa logisticam, seu logarithmicam lineam, addita epistola geometrica ad P. Thomam Cevam* (Florence, 1701).

Herbert Oettel