

## **Double-lined spectroscopic binary 57 Cyg. (#1155)**

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We present the results of the analysis of BRITE-Constellation photometry and ground-based spectroscopy of the double-lined spectroscopic binary 57 Cyg. The system with an orbital period of 2.854825 d consists of two similar B-type stars in an eccentric orbit and shows an apsidal motion with a period of about 200 yr. Fourier analysis of BRITE data revealed several frequencies between 0.3 and 1 c/d, which can be attributed to g-modes. One or both components of the system are therefore SPB stars. Radial velocities derived from new spectroscopic observations of 57 Cyg combined with the BRITE light curves were used to model the system with the Wilson-Devinney code. In this way, new physical and orbital parameters of the system were obtained.