LONG-TERM VARIATIONS IN THE β CEPHEI STARS 16 (EN) LAC AND ν ERI

M. JERZYKIEWICZ AND A. PIGULSKI
Wrocław University Observatory, Wrocław, Poland
(mjerz,pigulski)@astro.uni.wroc.pl

Using all available data, we investigate long-term variations of the amplitudes of the three strongest pulsation modes of 16 (EN) Lac and the period of the strongest mode of ν Eri. We show that in case of 16 (EN) Lac there are feasible explanations of the observed variations. The explanations involve non-linear interaction between pulsation modes (the first two observed modes) and beating between two non-interacting modes (the third observed mode). In case of ν Eri, however, we can only indicate the difficulty of accounting for the long-term period variation.

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