
Connection between period and amplitude of the Blazhko effect

Jozsef Benko*¹

¹Konkoly Observatory, MTA CSFK – Konkoly Thege Miklós út 15-17, H-1121, Budapest, Hungary

Abstract

We found a possible relationship between modulation period and amplitude of the Blazhko RR Lyrae stars: the long modulation period generally means high modulation amplitude while the short modulation period results in small amplitude. Albeit this effect is rather a tendency than a strict rule, it can be detected easily in the space-born time series data produced by Kepler and CoRoT. It can be found in good quality ground-based data, too. This phenomenon could give us some restrictions for the physics of the Blazhko effect.

*Speaker