

**ASTEROID PROPERTIES FROM PHOTOMETRIC
OBSERVATIONS: CONSTRAINING
NON-GRAVITATIONAL PROCESSES IN ASTEROIDS**

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Abstract. From October 2012 we run our NEOSource project on the Danish 1.54-m telescope on La Silla. The primary aim of the project is to study non-gravitational processes in asteroids near the Earth and in their source regions in the main asteroidal belt. In my talk, I will give a brief overview of our current knowledge of the asteroidal non-gravitational processes and how we study them with photometric observations. I will talk especially about binary and paired asteroids that appear to be formed by rotational fission, about detecting the Yarkovsky-O'Keefe-Radzievskii-Paddack (YORP) and BYORP (binary YORP) effects of anisotropic thermal emission from asteroids that change their spins and satellite orbits, and about non-principal axis rotators (the so called "tumblers") among the smallest, supercritically rotating asteroids with sizes < 100 meters.

Presentation link: http://belissima.aob.rs/Conf2012/Pravec_2012.ppt

