

**SURVEYS WITH INNOVATIVE ONE-METER
TELESCOPES: ASTEROIDS, DEBRIS,...**

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Abstract. Telescopes of the 1 m class with innovative optical systems can be compliant with the requirements of very advanced surveys for fast moving objects, including Near Earth Objects (NEO) and Space Debris (SD). To guarantee discovery of NEO impactors in time for mitigation the requirements include an extremely wide field of view, with small pixel size, and fill factor close to 1. For discovery of SD, to protect space assets from catastrophic fragmentation, also very fast readout and angular motion are required. We will present a new telescope design with 45 square degrees field of view, the software and algorithms allowing to detect the trails and to compute the orbits for fast moving objects. Innovative software and hardware are the elements of a survey system capable of extraordinary performances and with many other possible applications.

Presentation link: http://belissima.aob.rs/Conf2012/Milani_2012.pdf

