## Observation Campaign of DESTINY+ Mission Target Asteroid 3200 Phaethon (1983 TB) during the 2017 Apparition

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Near-Earth asteroid 3200 Phaethon (hereafter Phaethon) is the primary target of DESTINY+. The observation window for Phaethon in the end of 2017 is a good opportunity to acquire high quality dense photometric data as Phaethon passed the Earth only within 27 LD (Lunar Distance) on 16 Dec 2017, the closest approach in 40 years. However, the spin status including rotational period and pole orientation is not precisely constrained due to small variations in the lightcurve amplitude, probably resulting from a spheroidal shape. We carried out the photometric observation campaign for Phaethon between Asia and American Continents, during the period early Nov and mid-Dec 2017. We employed several telescopes: OWL 0.5 m, LOAO 1.0 m in Mt. Lemmon, USA, Maidanak 0.6 m in Uzbekistan, SOAO 0.6 m in Mt. Sobaek, Korea, 1.0 m in Kazakstan, BOAO 1.8 m in Mt. Bohyun, Korea. Based on our dataset, we will present the lightcurve and shape model of Phaethon.

Keywords: asteroids, Phaethon, photometry, lightcurve, shape