**Shape modelling and spectral classification of asteroids using data**

**from the AS Vidojevica and Gaia DR3**

We present the physical models of asteroids, their shapes, sense of
rotation, and spectral classes using Gaia DR3. The shape models were
determined using the lightcurve inversion method with the combination of
dense photometric data from the Astronomical Station Vidojevica in
Serbia and sparse data from the Gaia mission.

For obtaining asteroid low-resolution shapes, using sparse data
decreases the amount of required observational time for obtaining the
lightcurves at different geometrical circumstances. The GAIA DR3 spectra
of our targets are compared to the mean reflectance spectra of all
asteroid spectral classes from the Bus-DeMeo taxonomy. For asteroids
with known taxonomy, we made comparisons with Gaia-determined spectral
classes, and for unclassified asteroids, we made spectral
classification.