**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.