Contribution ID: **137** Type: **Poster**

Rotation properties of asteroids as seen by TESS

The Transiting Exoplanet Survey Satellite (TESS) contains a wealth of information on asteroids. As irregularly shaped asteroids tumble across the TESS field their brightness changes periodically. To date TESS has observed thousands of asteroids at high cadence. With the *TESSELLATE* transient pipeline we have identified and extracted 10 minute cadence lightcurves of all asteroids brighter than ˜17 mag observed by TESS in sectors 28-39. With these lightcurves we can calculate the rotation periods of the asteroids observed by TESS. We recover known asteroid rotation periods, and expand the population with rotation properties for new asteroids.

Author: LEICESTER, Brayden (University of Canterbury)

Co-authors: BANNISTER, Michele (University of Canterbury); RIDDEN, Ryan (University of Canterbury)

Presenter: LEICESTER, Brayden (University of Canterbury)