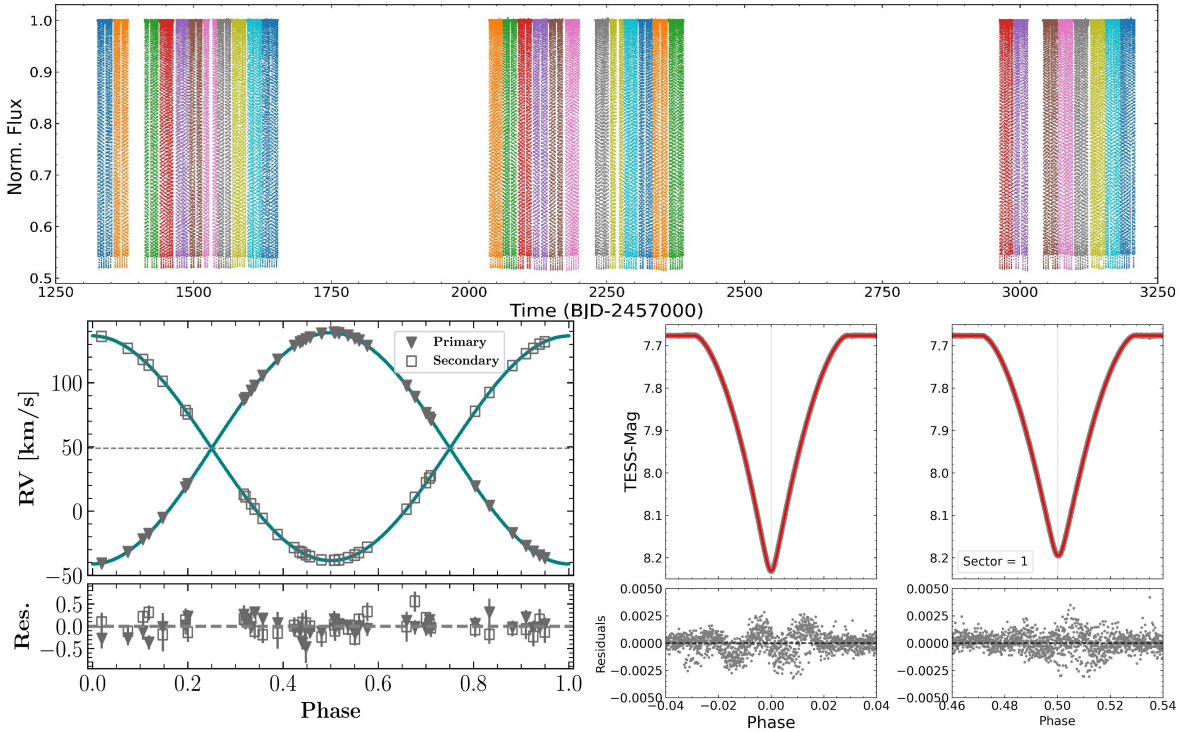
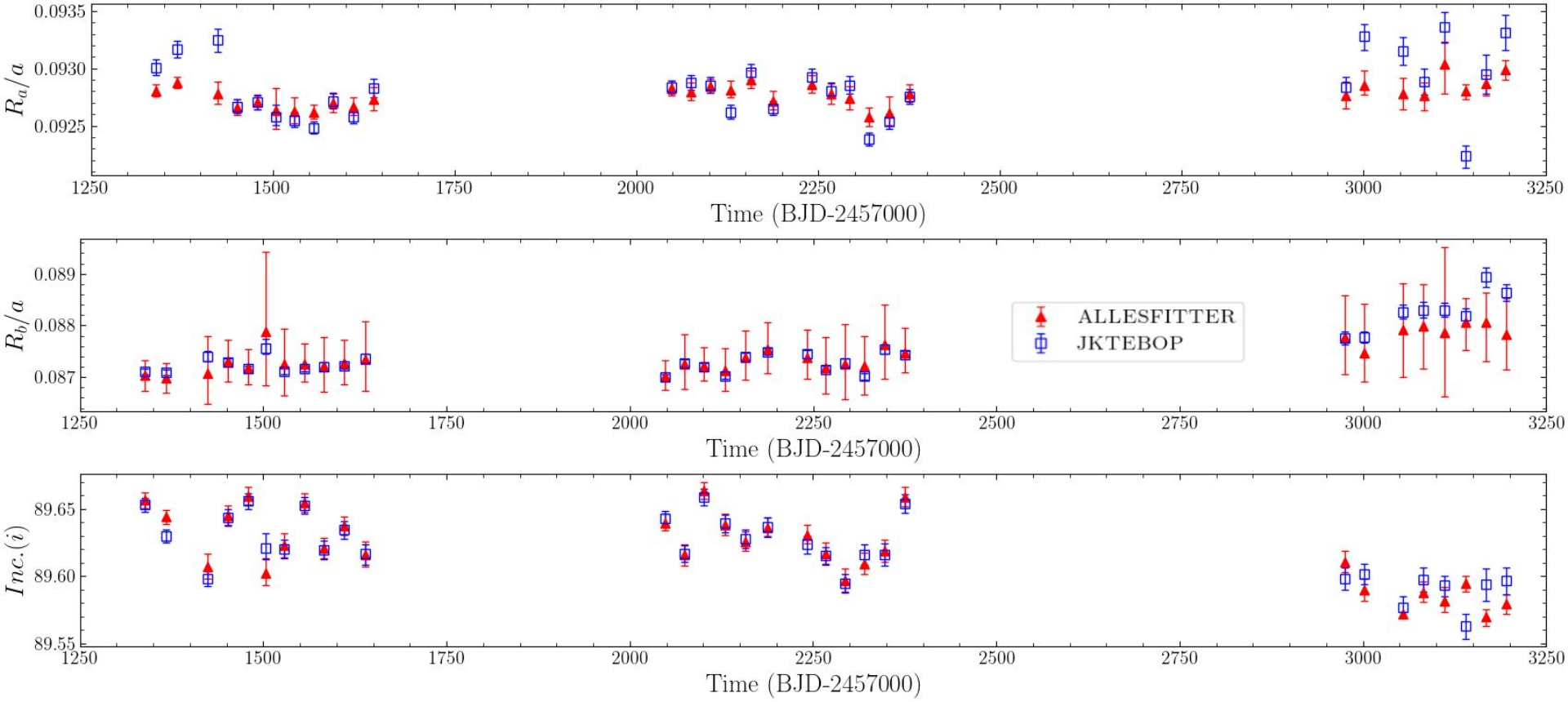
UX Mense: A Detached Eclipsing Binary as a Benchmark candidate for ESA's PLATO mission

Ganesh Pawar, Krzysztof Hełminiak, Ayush Moharana, Tilaksingh Pawar, Nikki Miller, Frédéric Marcadon

- UX Men has been observed from TESS in **31 sectors** (1-69).
- Two light curve modelling codes were used **ALLESFITTER** and **JKTEBOP.**
- Residuals from the LC modelling are at **0.03%**.
- Radial velocity models with V2FIT gave us a precision of **0.12 %** and **0.14 %** for primary and secondary.



GP29


R_a/a
0.0935
0.0930
0.0925
1250
1500
1750
2000
2250
2500
2750
3000
3250
Time (BJD-2457000)
R_b/a
0.089
0.088
0.087
ALLESFITTER
JKTEBOP
Time (BJD-2457000)
$Inc.(i)$
89.65
89.60
89.55
Time (BJD-2457000)