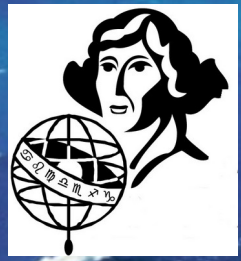
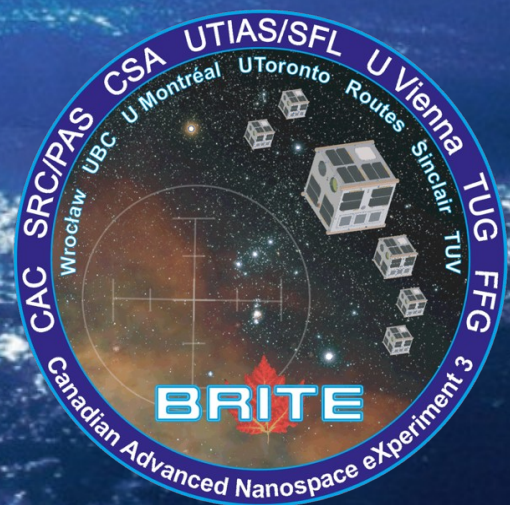


Up To **10 times**
Longer Lasting
Power*



and other stories



BRITE-Constellation – operational state



BRITE-Austria (BAb)
Uni-BRITE (UBr)

25.02.2013 insufficient data
25.02.2013 no fine pointing



BRITE-Lem (BLb)
BRITE-Heweliusz (BHr)

21.11.2013 no fine pointing
19.08.2014 science operations



BRITE-Toronto (BTr)
~~BRITE-Montreal (BMb)~~

19.06.2014 science operations
~~19.06.2014~~

End of financing at the Austrian and Canadian sides

Warsaw ground station is kept in best possible working condition;
ongoing conservation work

BHr and BTr could still deliver useful science data for many years

BRITE-Constellation – 10 years in space (cont'd)



August 20 – 23, 2024

Vienna, Austria



BRITE publications in 2024

Kallinger T., Weiss W.W., Kuschnig R., Stassun K.G.

A benchmark rapidly oscillating chemically peculiar (roAp) star: α Cir
Astronomy & Astrophysics 688, A62

Zieba S., et al.

The β Pictoris b Hill sphere transit campaign. II. Searching for the signatures of the β Pictoris exoplanets through time delay analysis of the δ Scuti pulsations
Astronomy & Astrophysics 687, A309

Fuentes A., Solar M.

Synthetic light curves of exoplanet transit using nanosatellite data
Astronomy and Computing 47, 100816

Zwintz K., et al.

Catalogue of BRITE-Constellation targets. I. Fields 1 to 14 (November 2013 – April 2016)
Astronomy & Astrophysics 683, A39

Barclay K.D.G., Rosu S., Richardson N.D., Chené A.-N., St-Louis N., Ignace R., Moffat A.F.J.

Using CHIRON spectroscopy to test the hypothesis of a precessing orbit for the WN4 star EZ CMa
Monthly Notices of the Royal Astronomical Society 527, 2198

+ 19 BRITE related electronic conference proceedings papers from the Vienna meeting

GH publications in 2024

Single-lined eclipsing binaries with δ Scuti components: GQ Dra, RR Lep, and TYC 683-640-1
Kahraman Aliçavuş, F.; Aliçavuş, F.; Çoban, Ç. G.; Handler, G.; De Cat, P.
2024, MNRAS, 527, 4076

TESS Cycle 2 observations of roAp stars with 2-min cadence data
Holdsworth, D. L.; et al.
2024, MNRAS, 527, 9548

Catalogue of BRITe-Constellation targets. I. Fields 1 to 14 (November 2013-April 2016)
Zwintz, K.; et al.
2024, A&A, 683, A49

β Cephei Pulsators in Eclipsing Binaries Observed with TESS
Eze, Christian I.; Handler, G.
2024, ApJS, 272, 25

Pulsating hydrogen-deficient white dwarfs and pre-white dwarfs observed with TESS. VI.
Asteroseismology of the GW Vir-type central star of the Planetary Nebula NGC 246
Calcaferro, L. M.; Sowicka, P.; Uzundag, M.; Córscico, A. H.; Kepler, S. O.; Bell, K. J.; Althaus, L.
G.; Handler, G.; Kawaler, S. D.; Werner, K.
2024, A&A, 686, A140

Characterization of the δ Scuti eclipsing binary KIC 4851217 and its tertiary companion as well as
detection of tidally tilted pulsations
Jennings, Z.; Southworth, J.; Rappaport, S. A.; Borkovits, T.; Handler, G.; Kurtz, D. W.
2024, MNRAS, 533, 2705

GH publications in 2024 (cont'd)

TIC 184743498: the first tri-axial stellar pulsator

Zhang, V.; Rappaport, S.; Jayaraman, R.; Kurtz, D. W.; Handler, G.; Fuller, J.; Borkovits, T.
2024, MNRAS, 528, 3378

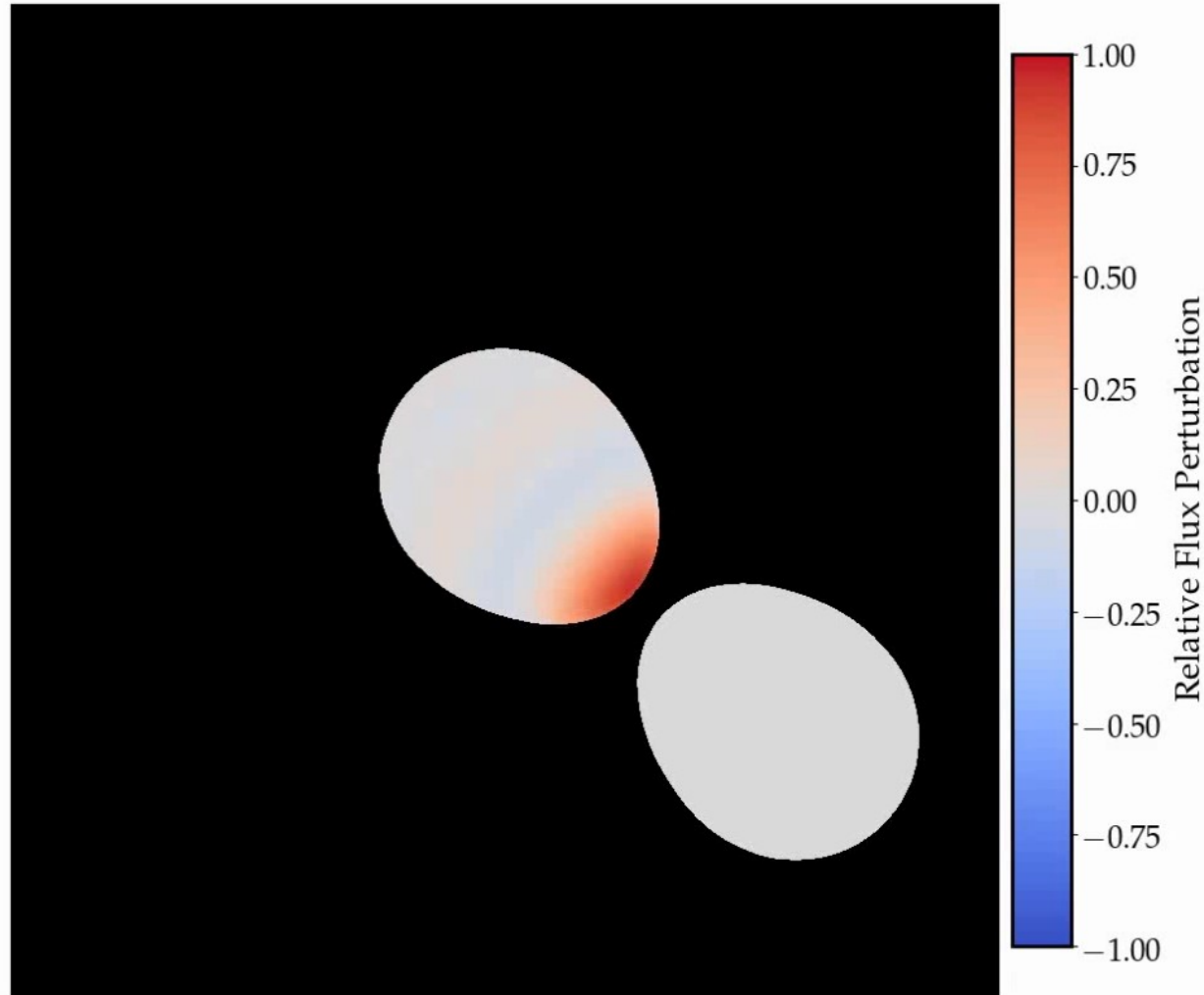
TIC 435850195: The Second Triaxial Tidally Tilted Pulsator

Jayaraman, R.; Rappaport, S. A.; Powell, B.; Handler, G.; et al.
2024, ApJ, 975, 121

On the existence of `Maia variables'

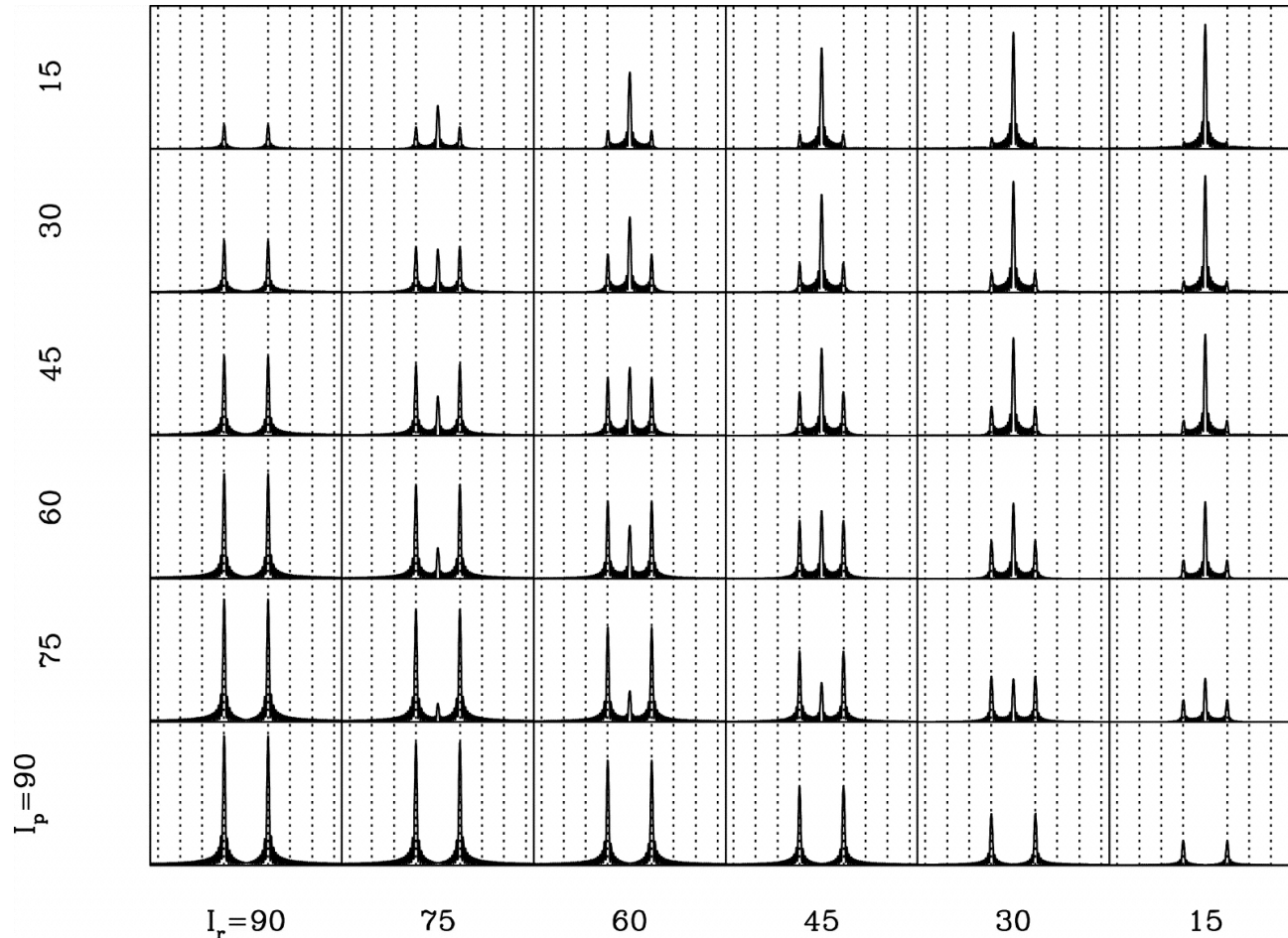
Kahraman Aliçavuş, F.; Handler, G.; Chowdhury, S.; Niemczura, E.; Jayaraman, R.; De Cat, P.;
Ozuyar, D.; Aliçavuş, F.
2024, PASA, 41, e082

Tidally tilted pulsators...

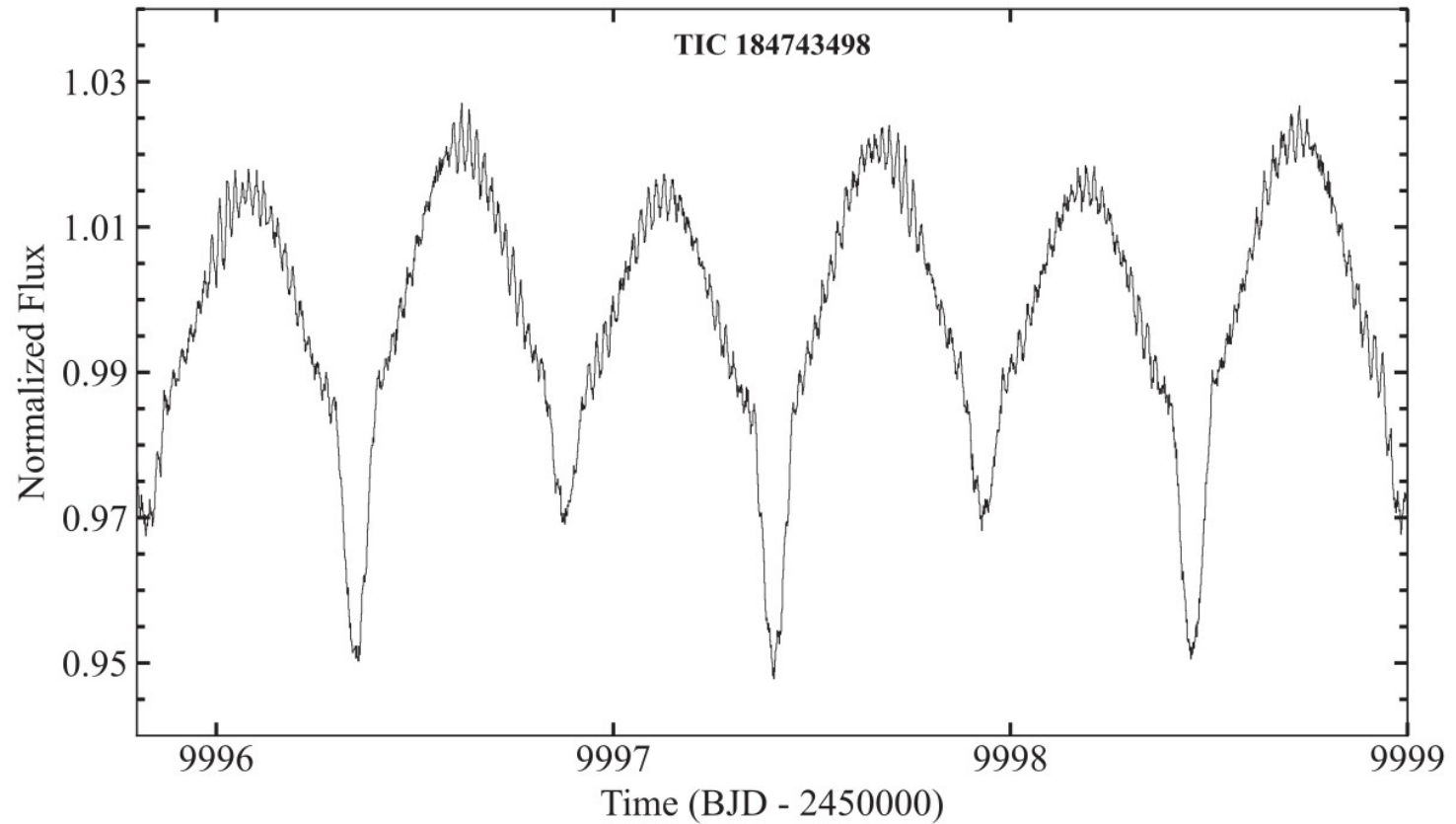


Fuller et al. 2020, MNRAS 498, 5730

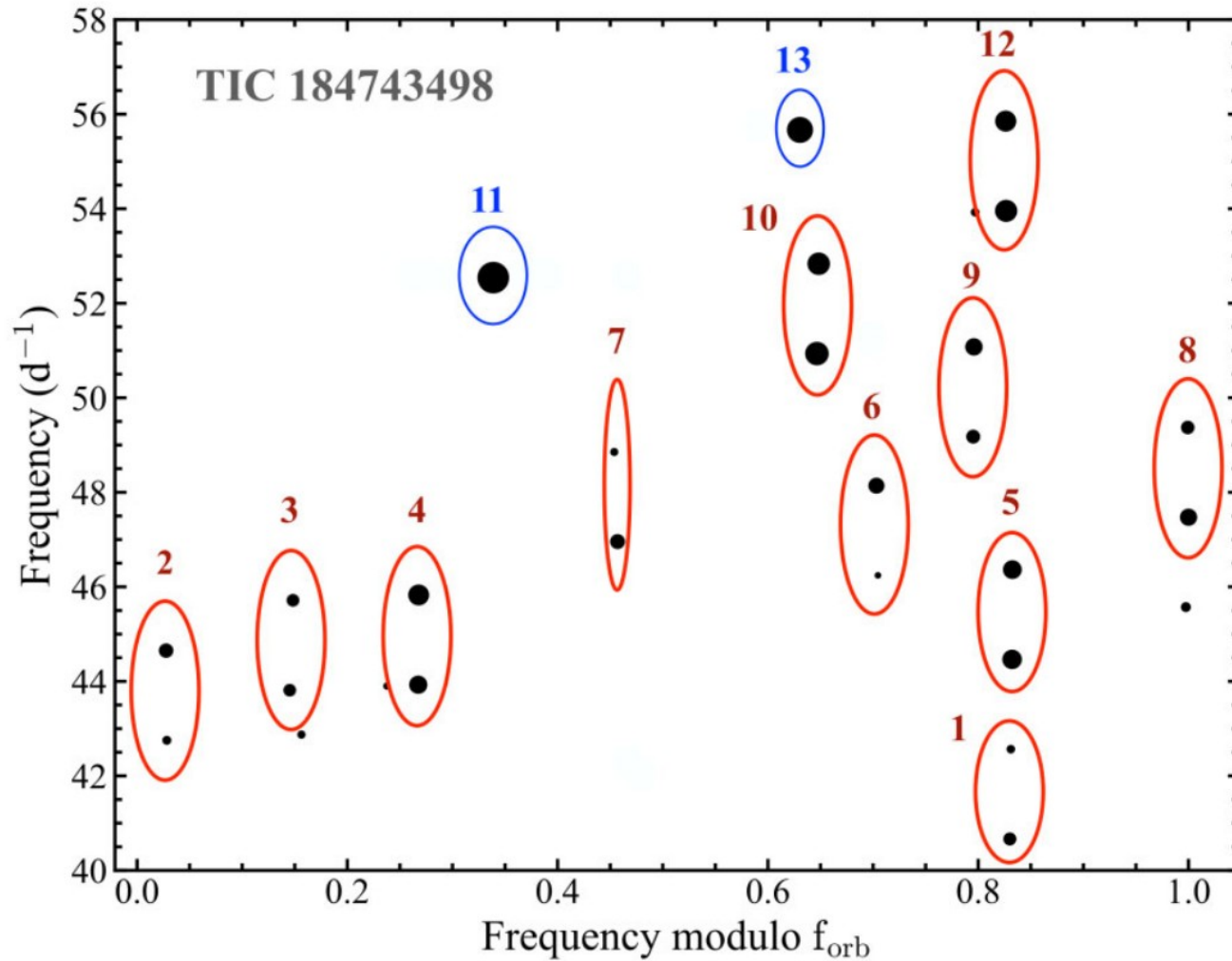
...leave predictable frequency structures in a Fourier Transform of the light curve depending on the system geometry



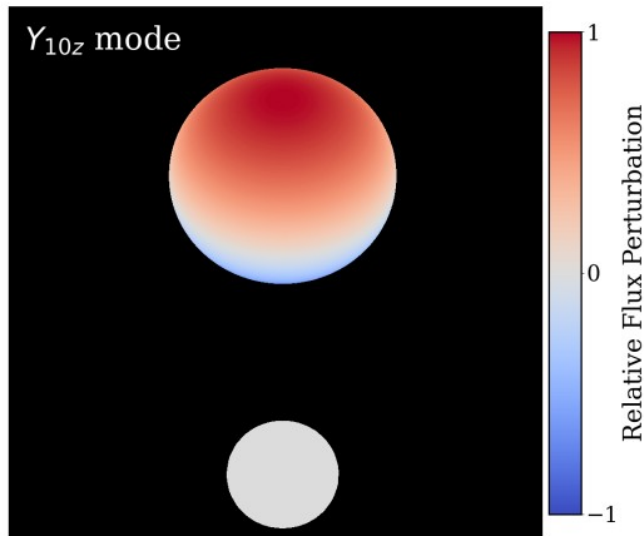
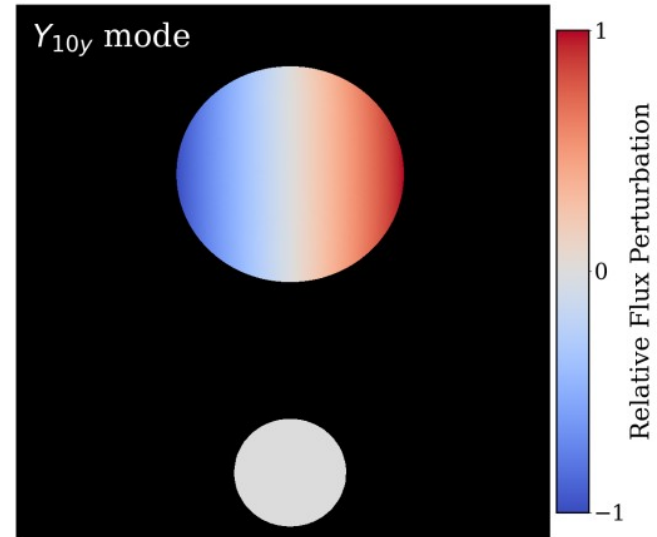
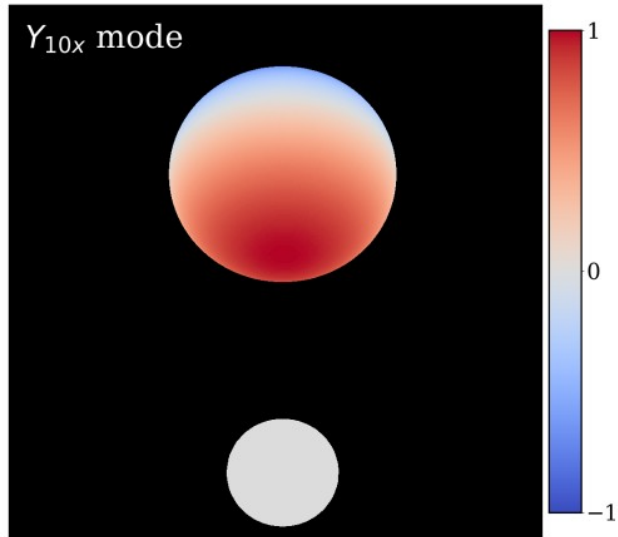
TIC 184743498 and TIC 435850195 behave differently...



TIC 184743498 and TIC 435850195 behave differently...



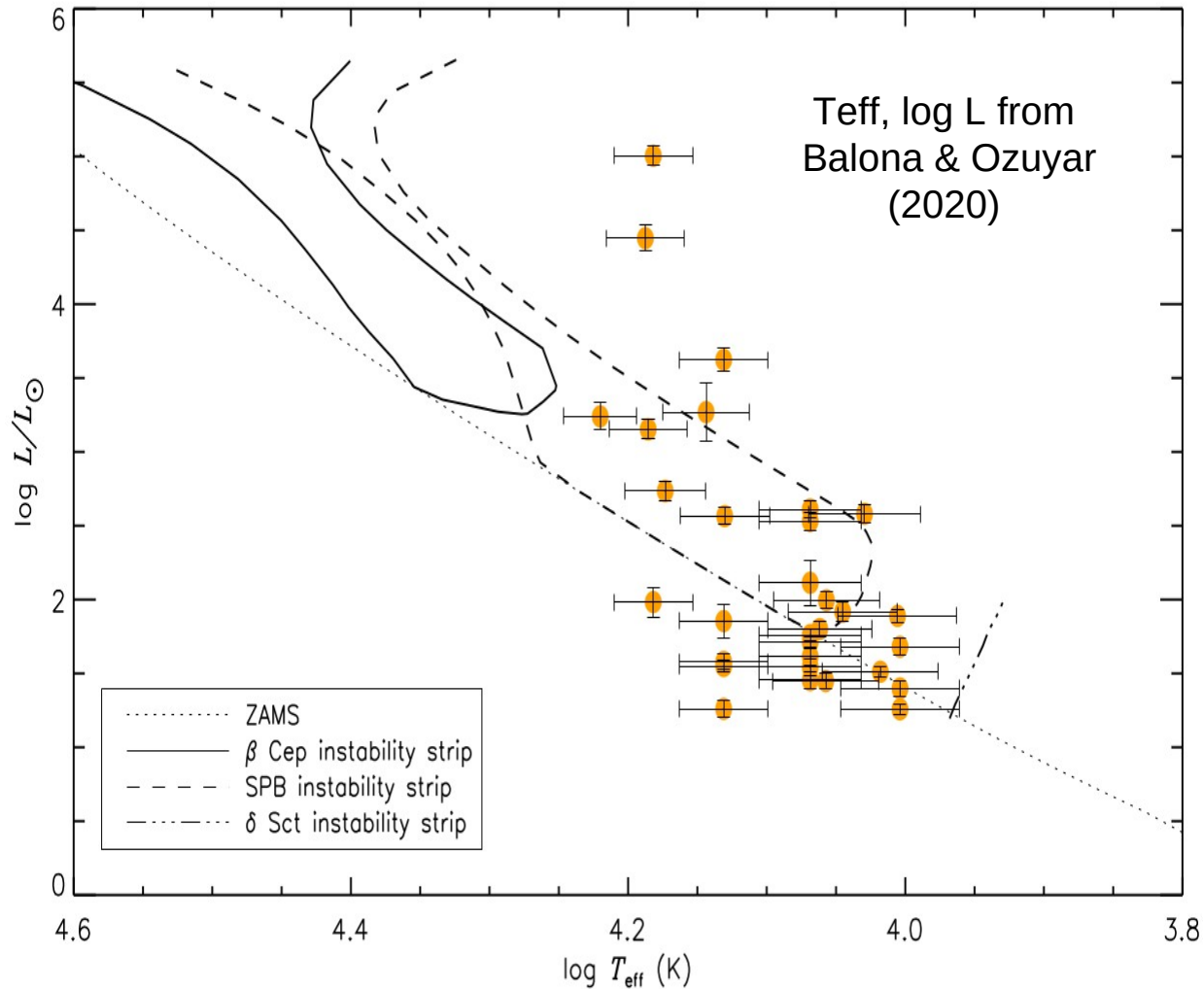
...because they are triaxial pulsators





And now for something completely different

The enigmatic „Maia” variables...



...probably don't exist

