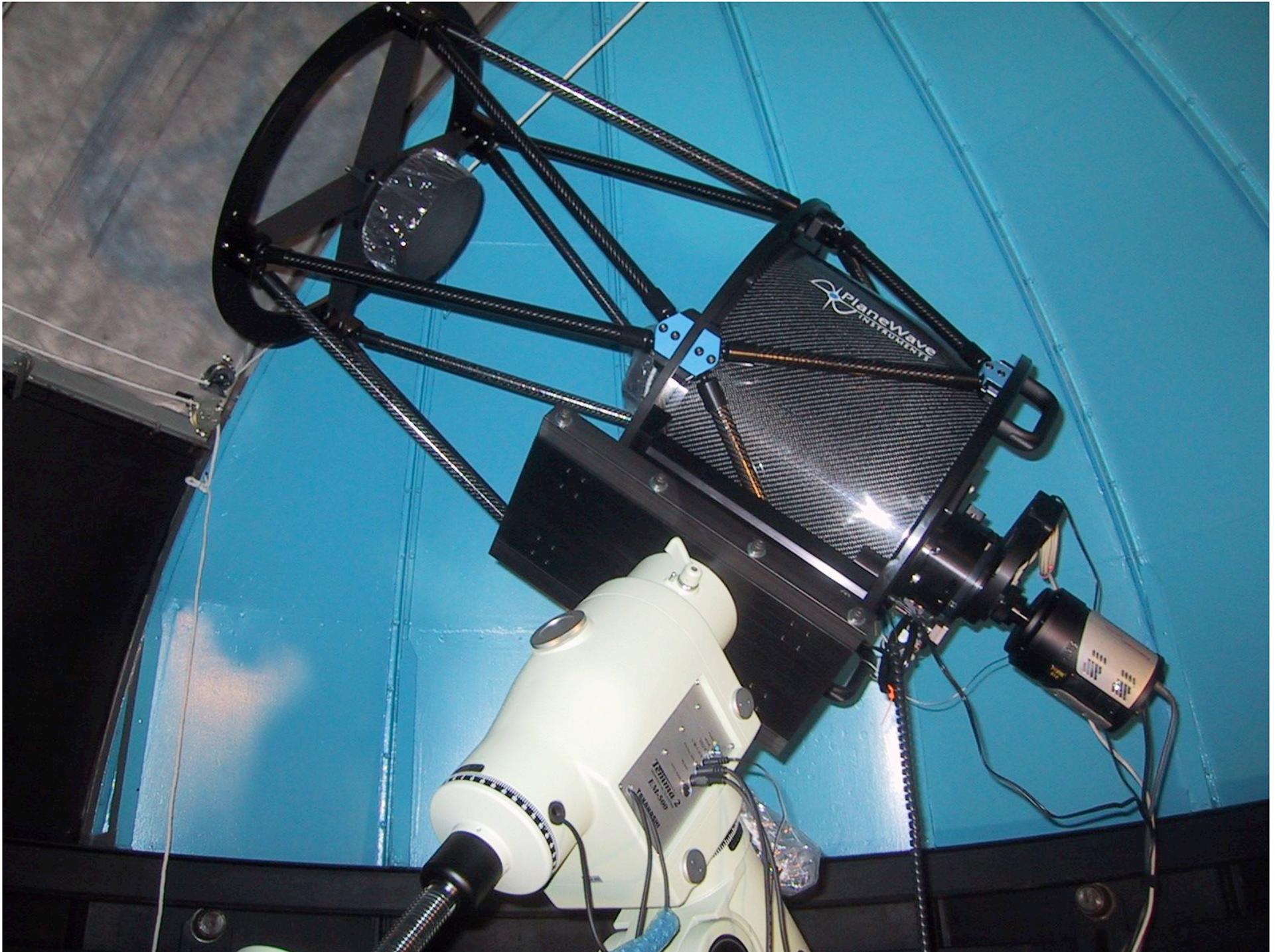


Observations of ExoPlanets at the MMO

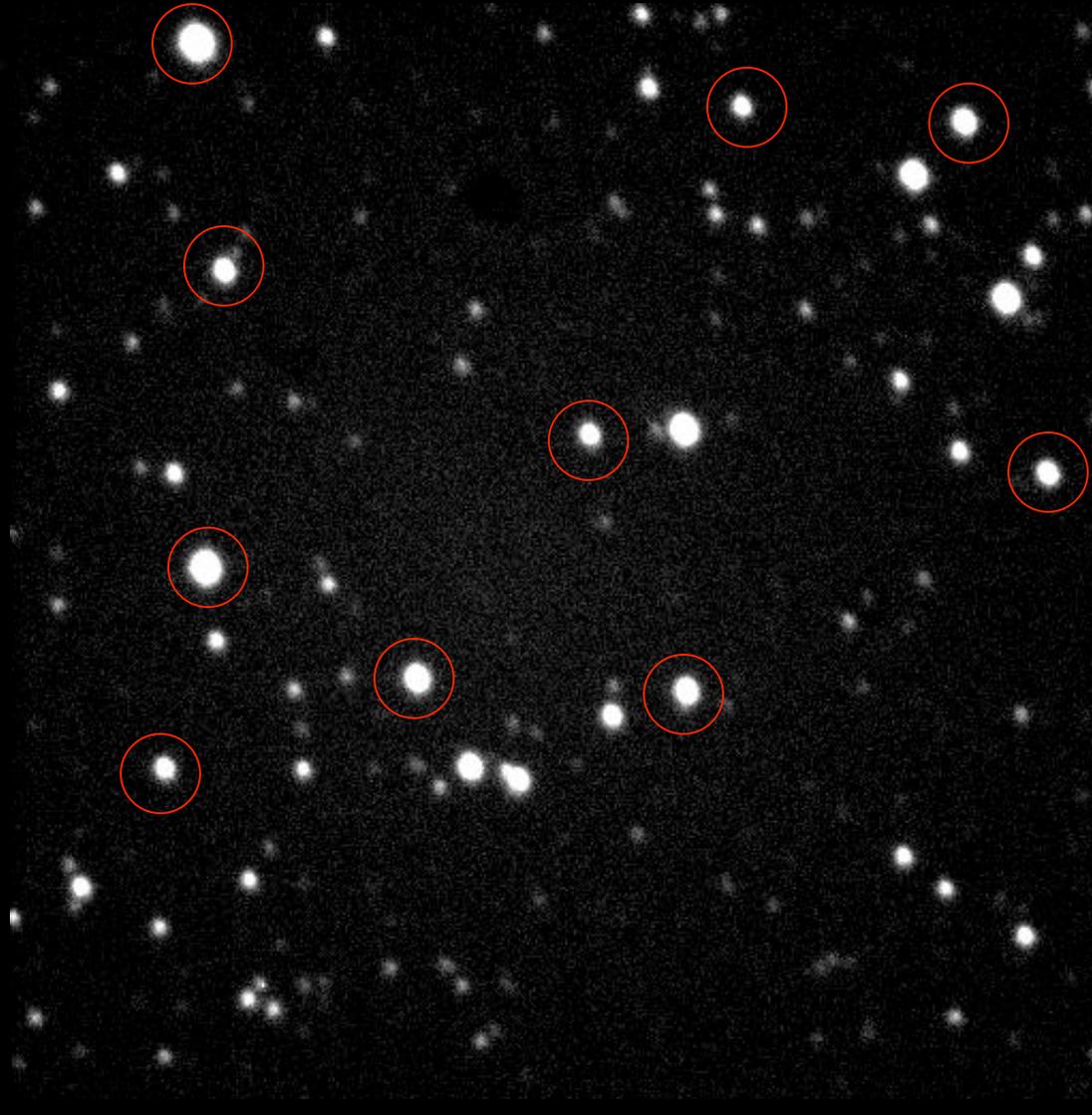
J. Williams, G. Walker, & V. Strelnitski



RET attempting to blend in with REUs



Transit Observations



CORRECTED FOR EXTINCTION & EXTRA LOSSES

- Obj
- 01
- 02
- 03
- 04
- 05
- 06
- 07
- 08
- 09
- 10

10.00

11.00

CORRECTED FOR EXTINCTION & EXTRA LOSSES

- Obj
- 01
- 02
- 03
- 04
- 05
- 06
- 07
- 08
- 09
- 10
- 11
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- 14
- 15
- 16
- 17
- 18
- 19
- 20
- 21
- 22
- 23
- 24
- 25
- 26
- 27

10.94

10.96

10.98

11.00

11.02

11.04

11.06

Hours

Hours

CORRECTED FOR EXTINCTION & EXTRA LOSSES

- Obj
- 01
- 02
- 03
- 04
- 05
- 06
- 07
- 08
- 09
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- 21
- 22
- 23
- 24
- 25
- 26
- 27

10.00

11.00

12.00

13.00

14.00

15.00

16.00

Hours

15.00

16.00

4

5

4

5

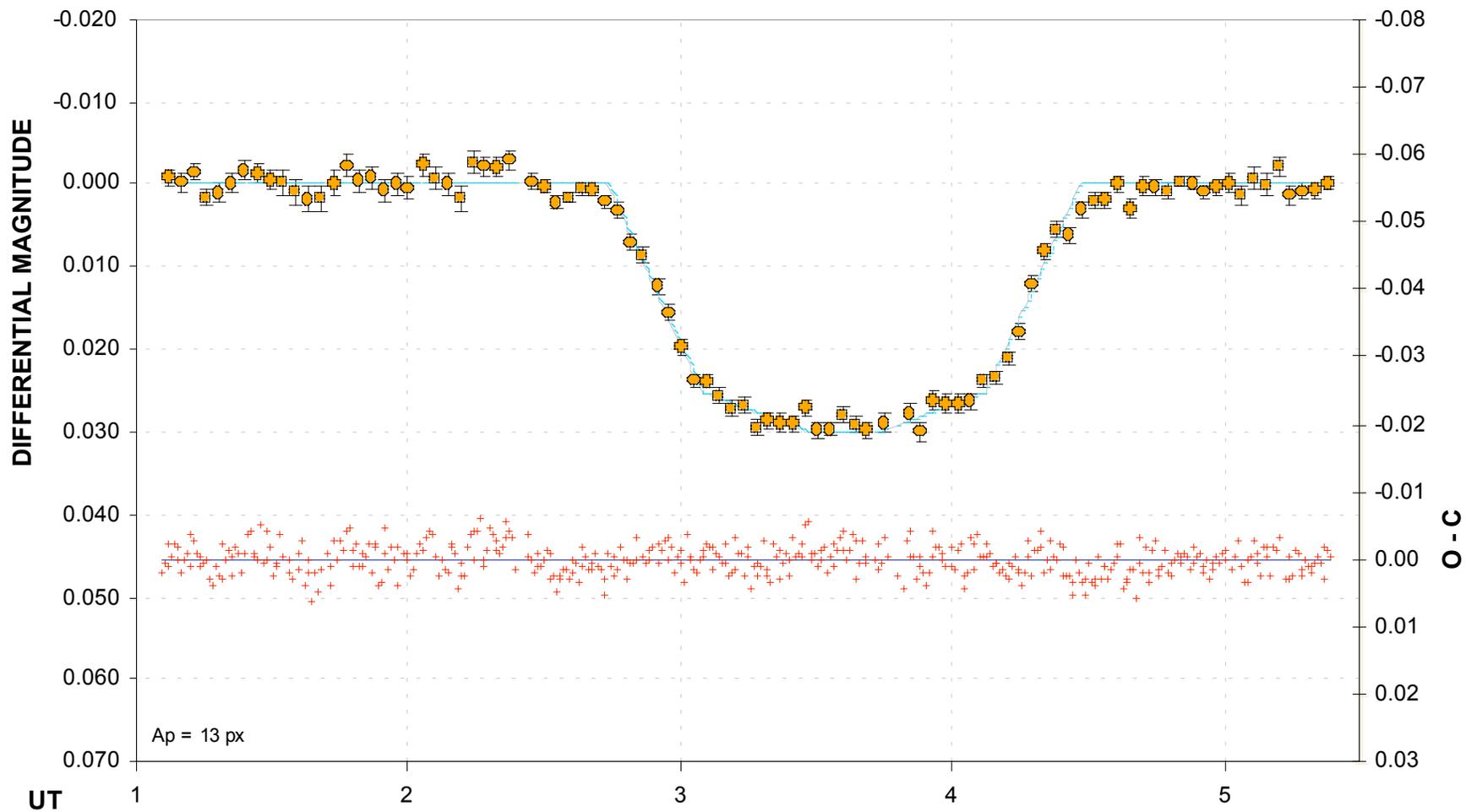
6

7

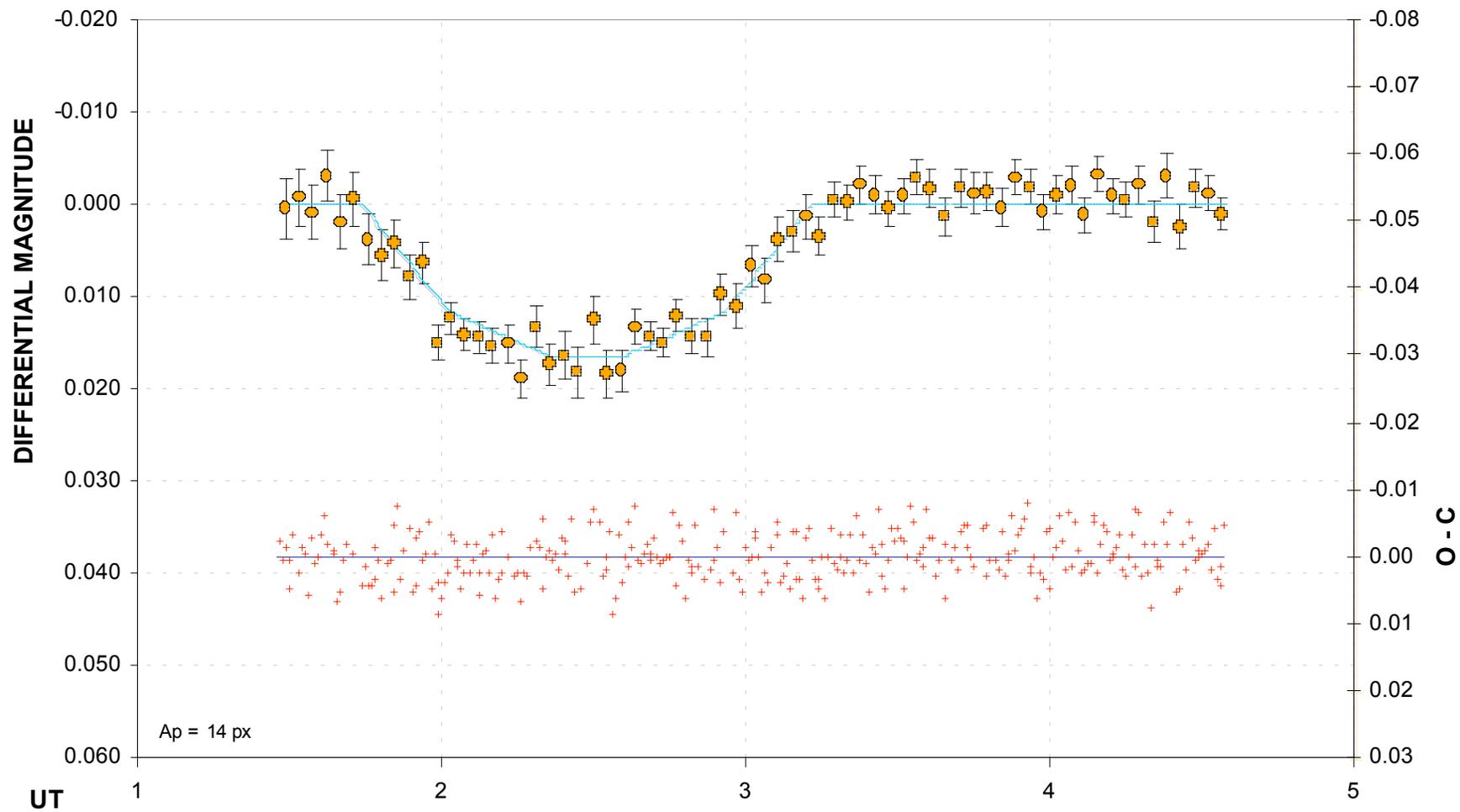
8

9

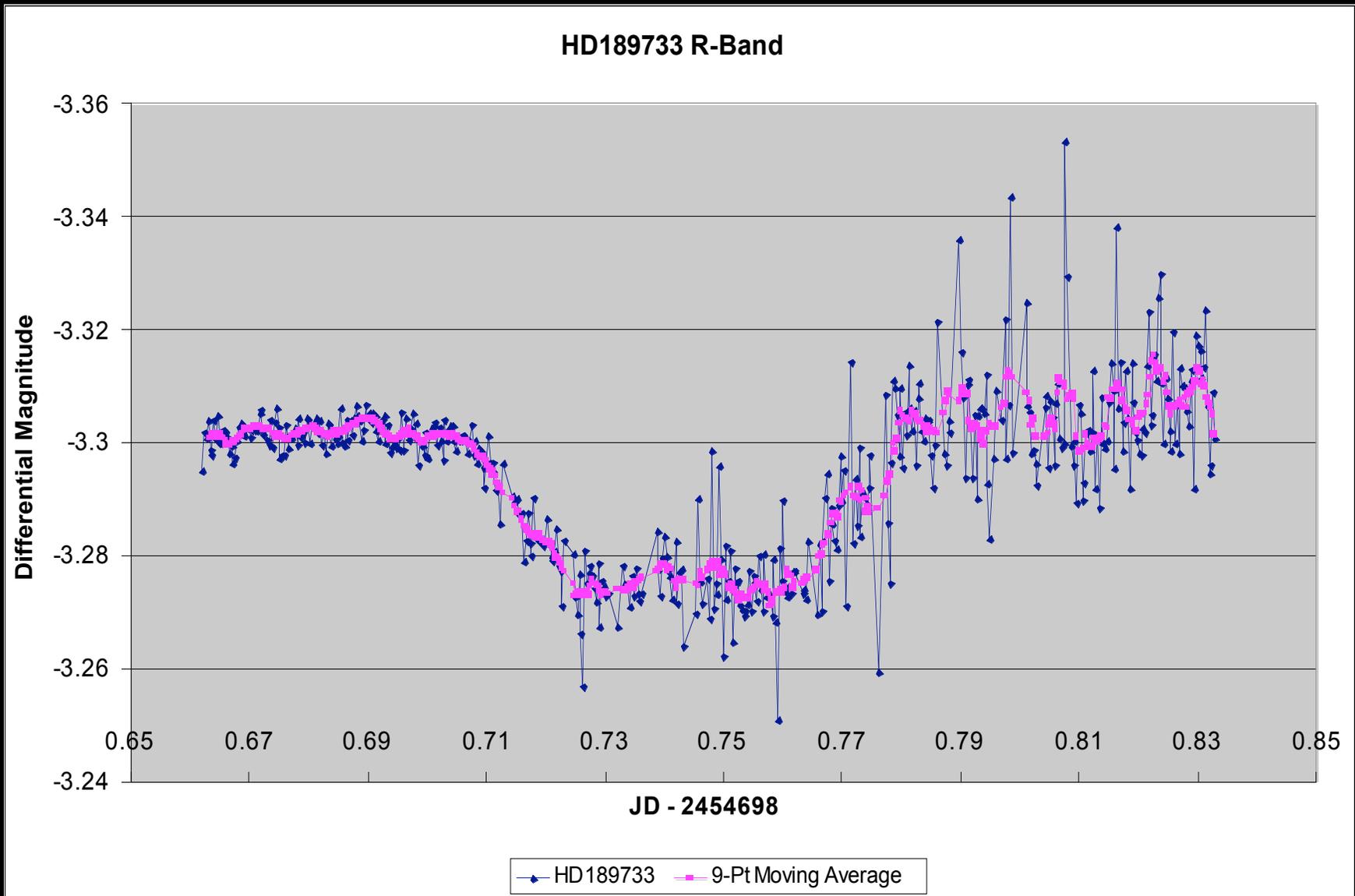
HD189733, 2008.08.08, I_z-band, Williams (MMO)



Tres-2, 2008.07.28, R-band, Williams (MMO)



Differential Photometry

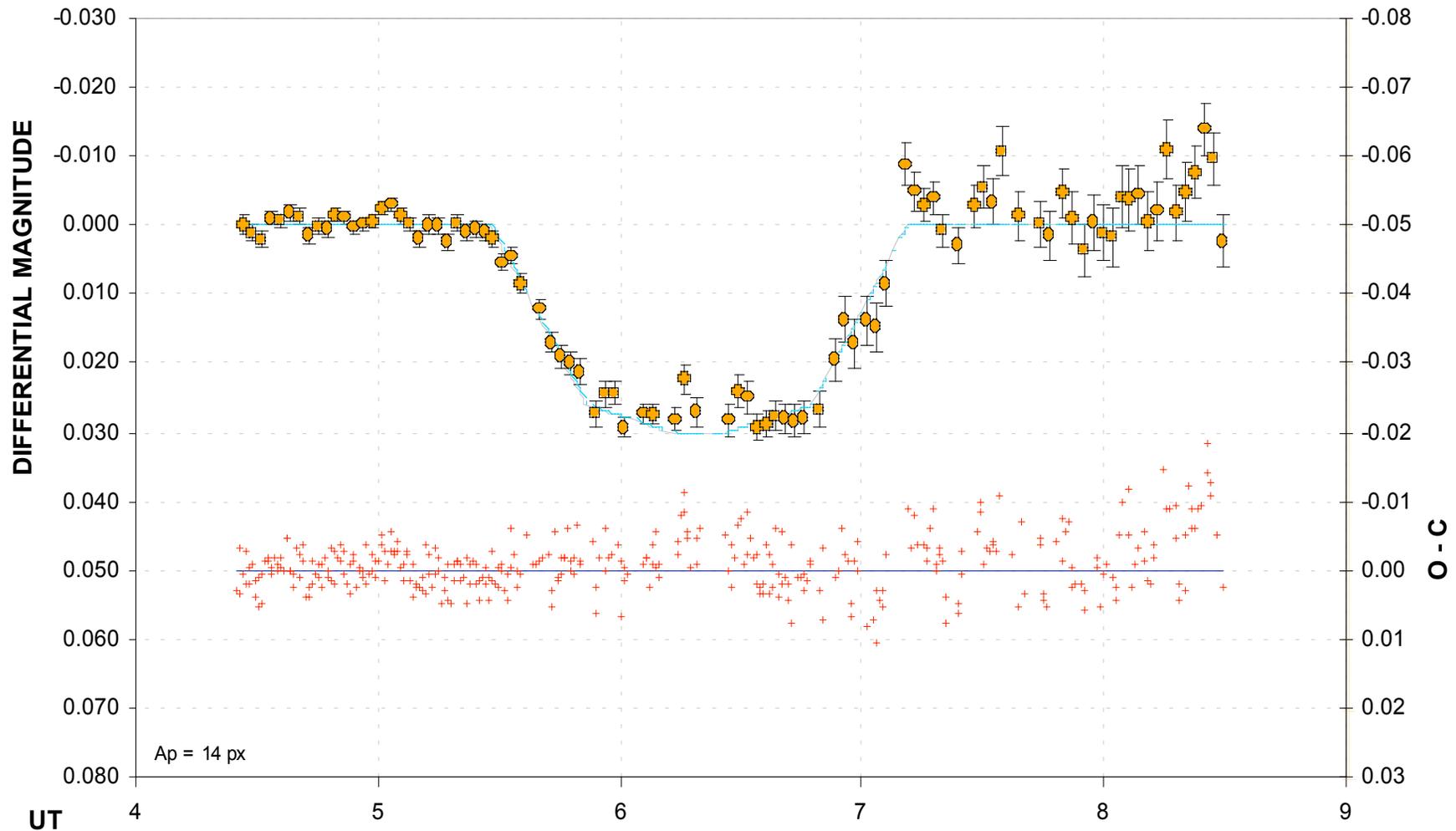


Bruce Gary's Spreadsheet

<http://brucegary.net>

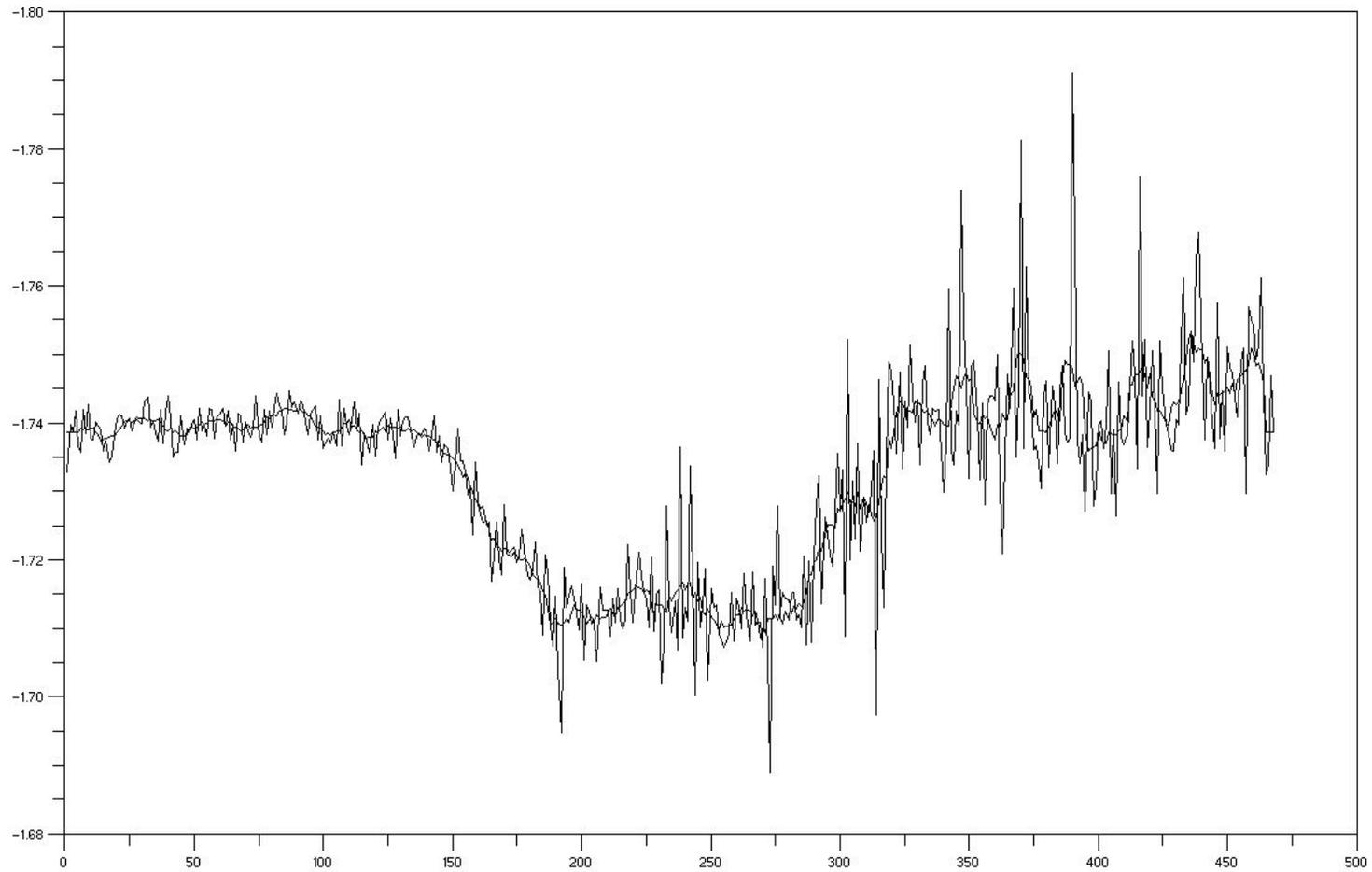
HD189733, 2008.08.20, R-band, Williams(MMO)

JD: 2454698



Sysrem (Tamuz et al. 2005)

HD189733 JD:4698



Sysrem, a technique for removal of systematic errors from large sets of light curves, was created (Tamuz et al. 2005) and widely used in photometric surveys for transiting exoplanets.

In principle, each run of Sysrem can find and remove one significant systematic effect.

Sysrem requires a limiting factor to avoid removing the transit itself.

MMO's (potential) solution to the halting problem:

1. Separate target from comp stars
2. Run Sysrem on comp stars ONLY
3. Apply average correction to target

Research continues...

