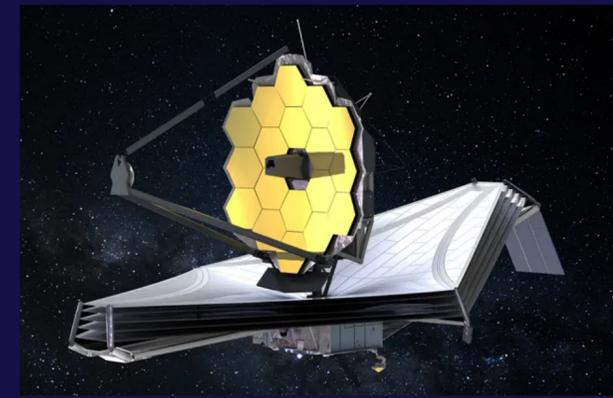
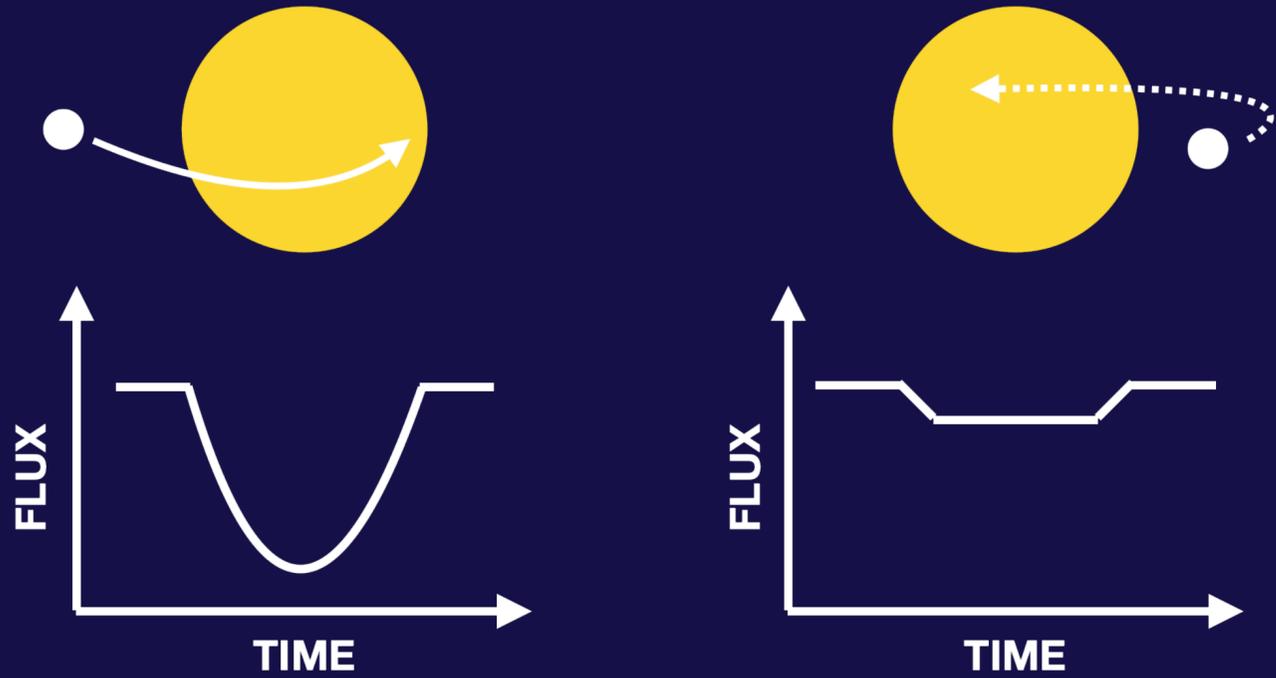


# EXOPLANETS WITH JWST/MIRI: FIGHT THE NOISE!

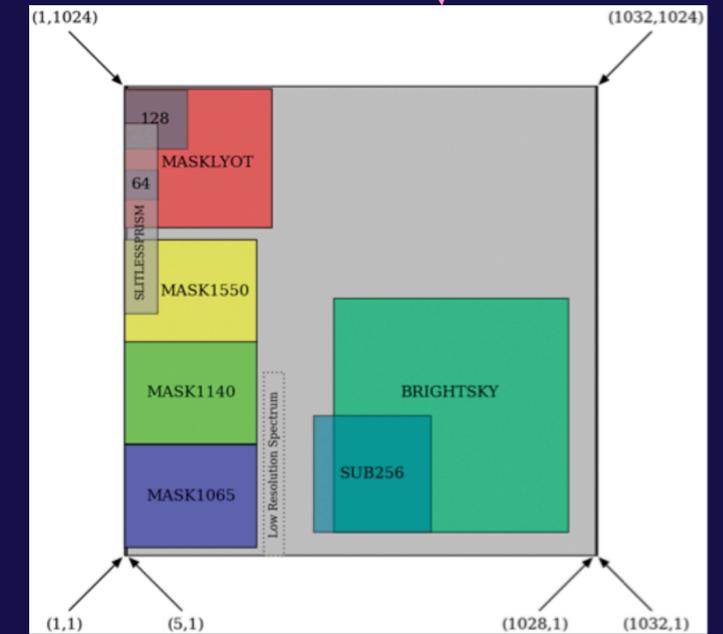
Prune Camille August, DTU Space



JWST

MIRI detector & subarrays

**CHALLENGES:**  
small signals (~ 100 ppm)  
new instruments



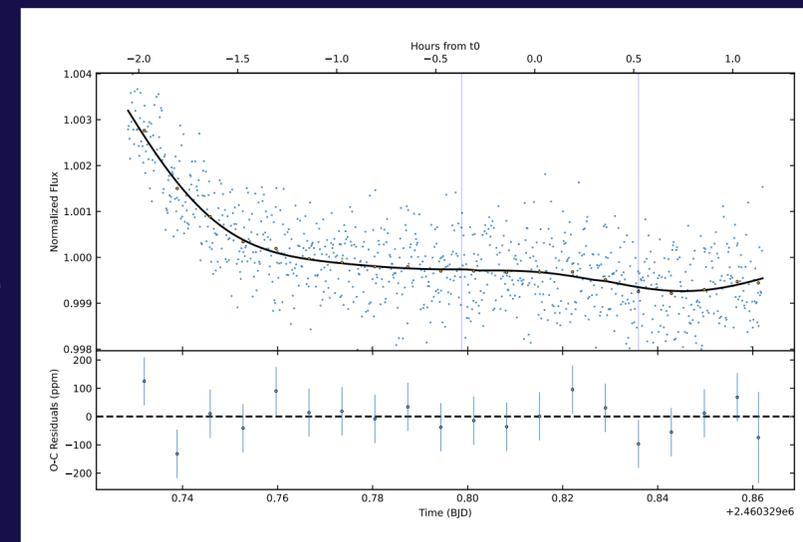
## QUESTIONS:

Can **ML techniques** help me identify systematics **we don't know about**?  
Are there noise/systematics **patterns across the detector** I can **identify** (and perhaps **remove**) beforehand?

modeling, ...

scientific interpretation

light-curve



lots of image/data processing...