Data Challenge 2018: Summary

Description of Light Curves

There are 293 total light curves consisting of

93 CVs
74 Point Lenses
126 Binaries = 2L1S (including planets)

Summary of Planetary Light Curves

We define “planets” as mp < 13 M_Jup.

By Physical Properties

Total Number of Planets (mp < 13M_Jup): 48

Number of Planets w/ (mp < 1 M_Jup): 34
Number of Planets w/ (mp < 1 M_Nep): 18
Number of Planets w/ (mp < 2 M_Earth): 3

By Microlensing Properties

Caustic Type

Non-Resonant Caustic Planets: 37
Resonant Caustic Planets: 11

Of Particular Interest

Small planets (log q < -5): 3
Wide planets (s > 1.5): 15
Wide planets (s > 2): 10

Figures

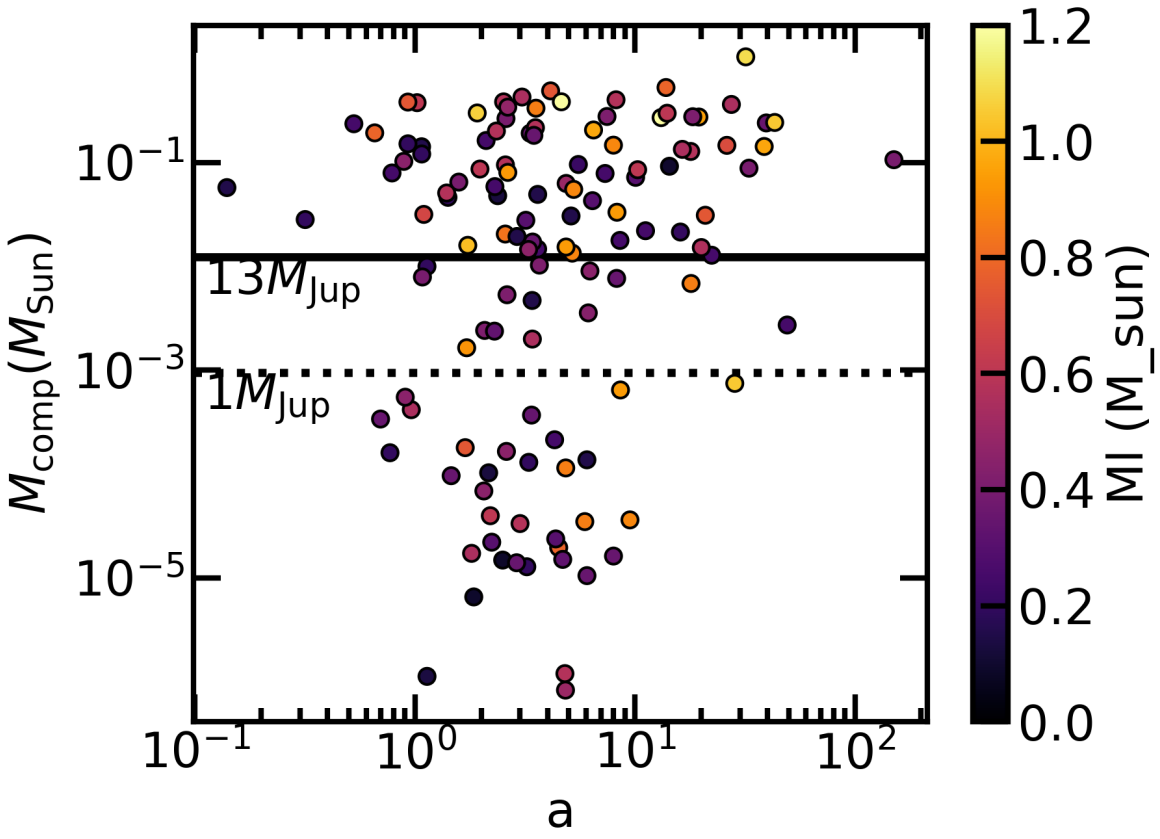

Figure 1. There are 126 2L1S light curves in the sample including 48 planets.

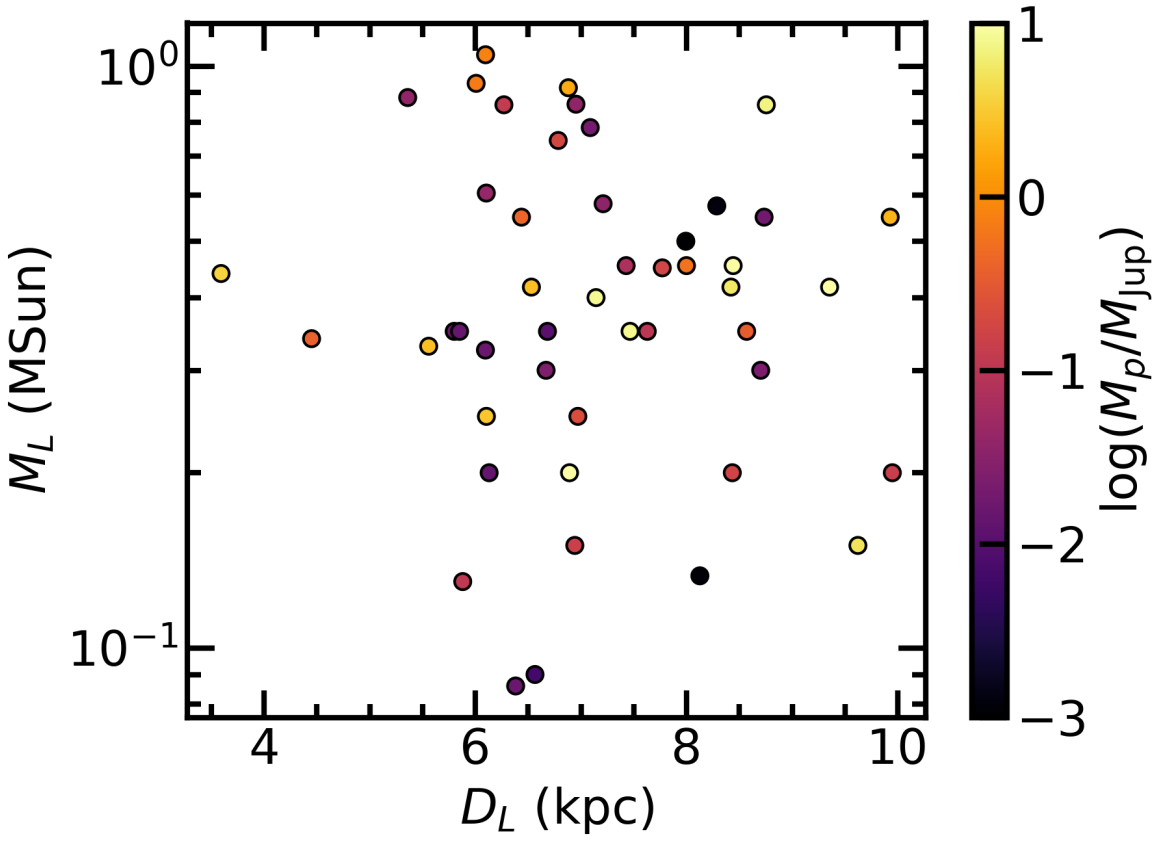

Figure 2. Host system properties for the 48 planets.

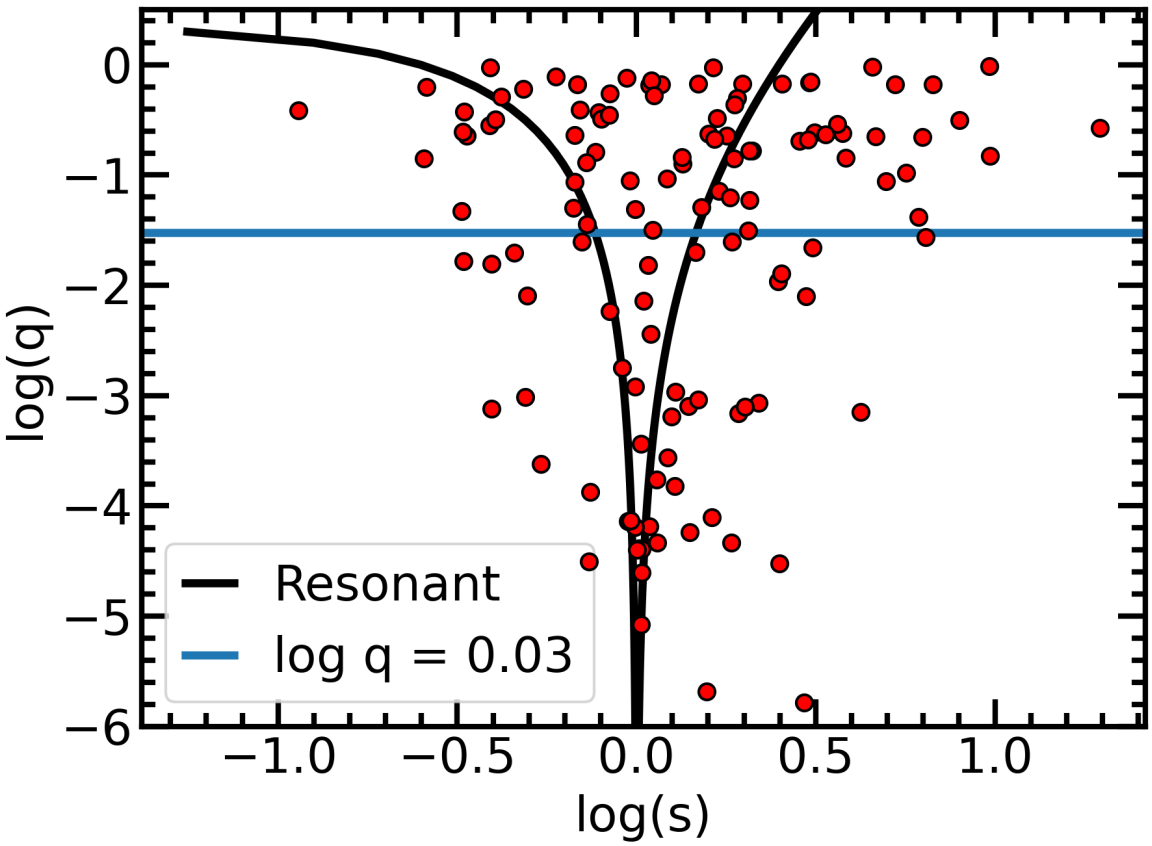

Figure 3. log s and log q of the 126 2L1S light curves. log q = 0.03 is the traditional cutoff for defining a “planet” in this space. Black lines show the borders of the “resonant caustic” region centered on log s = 0.