

# SMARTS

Small and Moderate Aperture Research Telescope System

# CHIRON

RVs to  $\sim 10$  m/s  
stellar characterization



radial  
velocity  
program  
2017+

imaging  
program  
1999+

1.0m

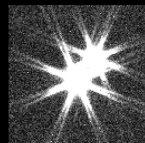
Schmidt

4.0m

1.5m

0.9m

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**RECONS**  
Research Consortium on Nearby Stars

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# CHIRON Update

## GENERAL

<b>2017B reopened</b>	<b>Chilean observers</b>
<b>2018A to 2022B</b>	<b>10 semesters</b>
<b>Papers</b>	<b>84 +</b>
<b>Dissertations</b>	<b>7 +</b>

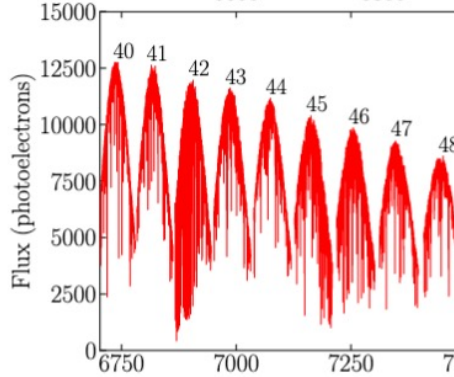
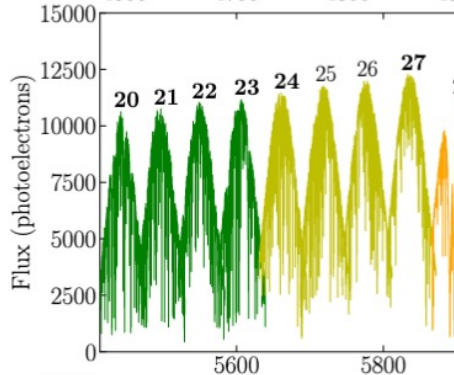
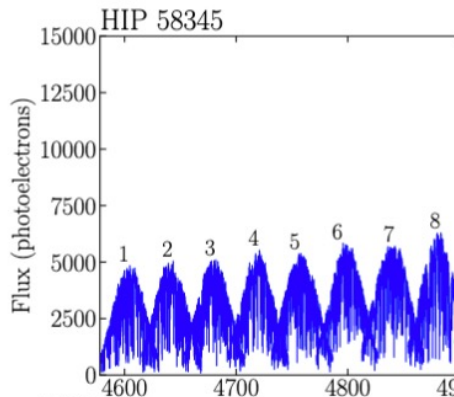
## NN-EXPLORE

<b>2019A to 2022B</b>	<b>8 semesters</b>
<b>NASA Time</b>	<b>2679 hours</b>
<b>Observed Time</b>	<b>2492 hours = 93%</b>

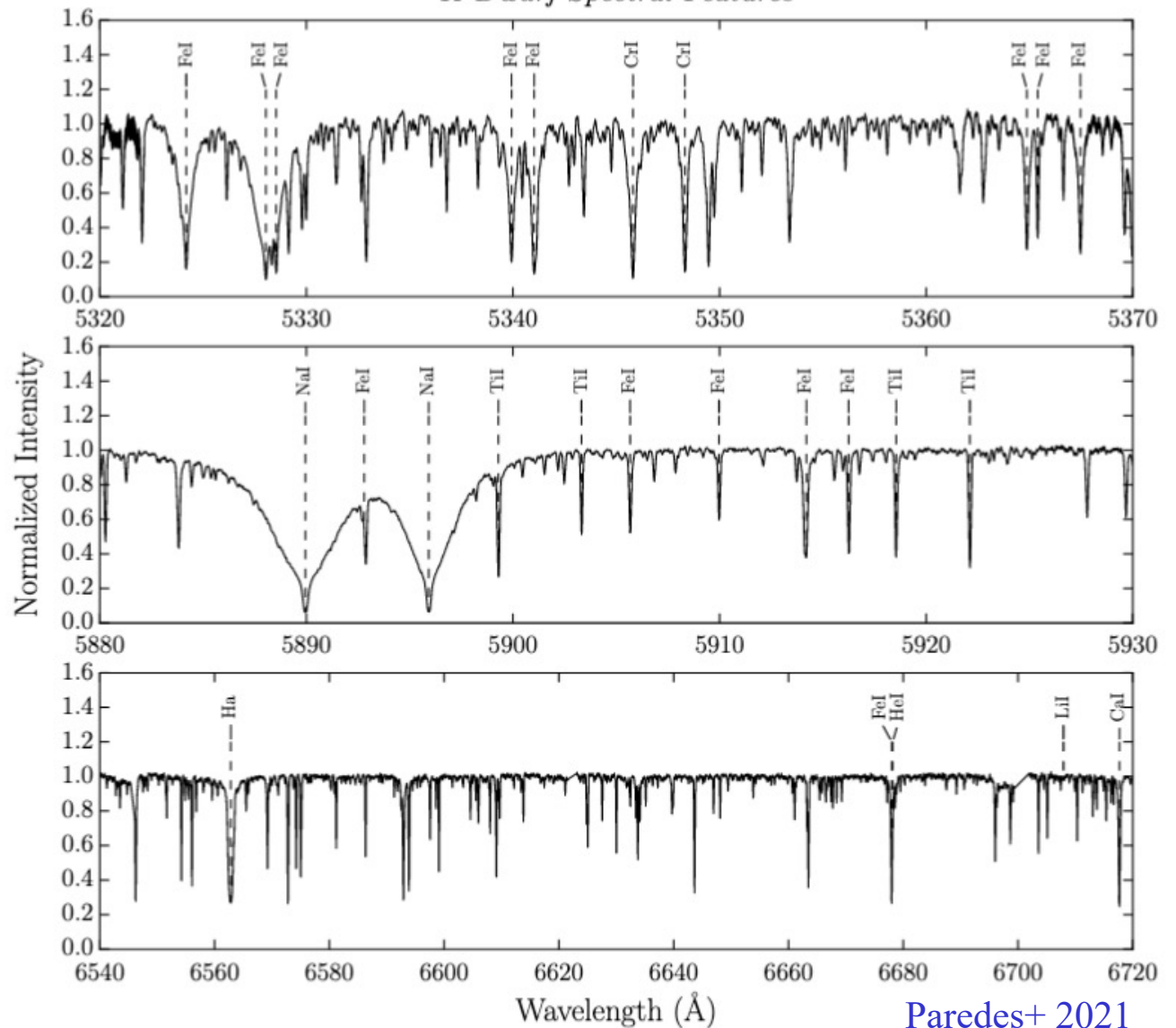
<b>NASA PI Count</b>	<b>21 people</b>
<b>NASA PI Science</b>	<b>55 programs</b>
<b>NASA Papers</b>	<b>29 +</b>
<b>NASA Planet Papers</b>	<b>24 +</b>



# CHIRON Capabilities

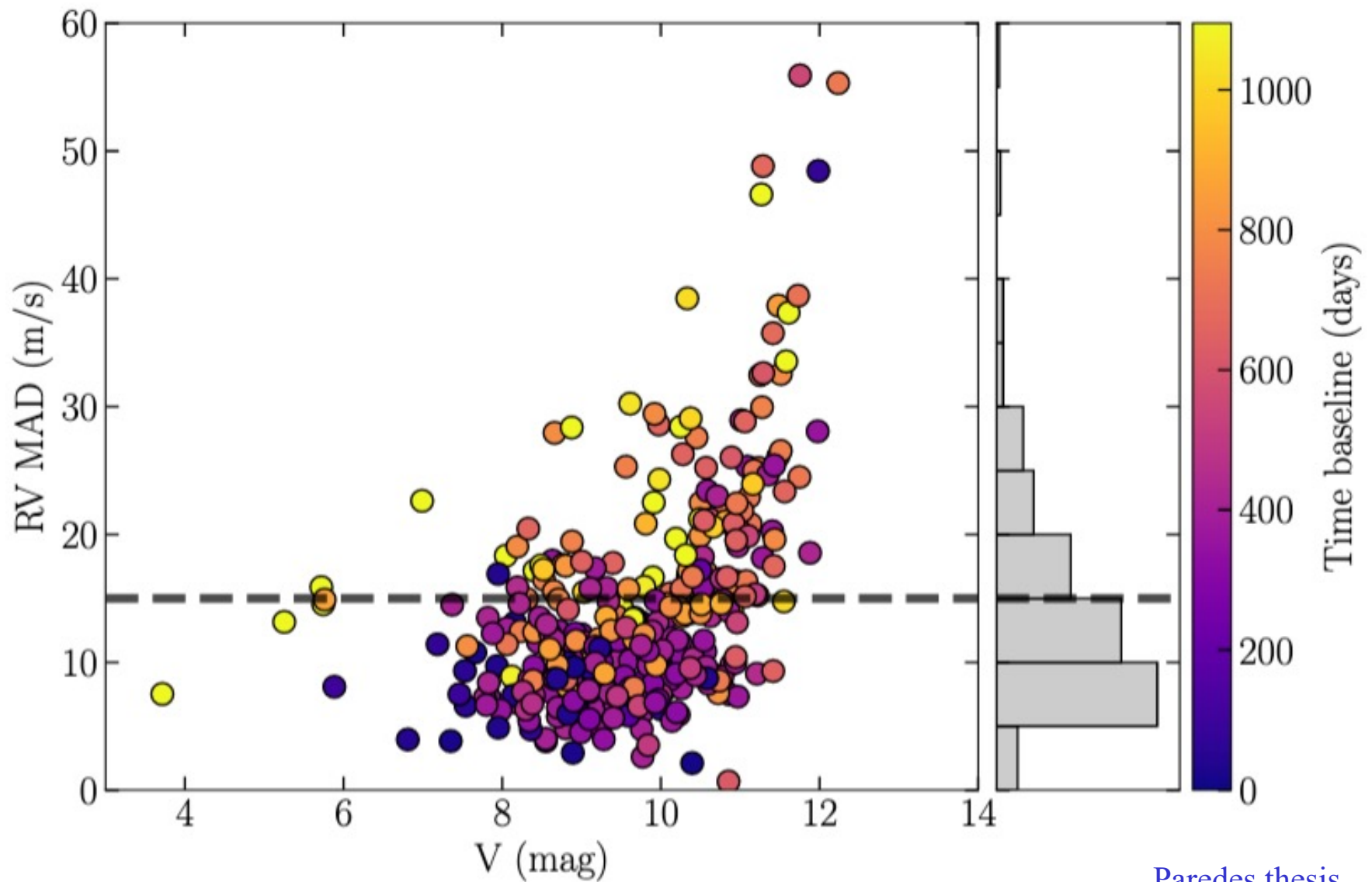


*K Dwarf Spectral Features*



Paredes+ 2021

# CHIRON Capabilities



# CHIRON Exoplanets

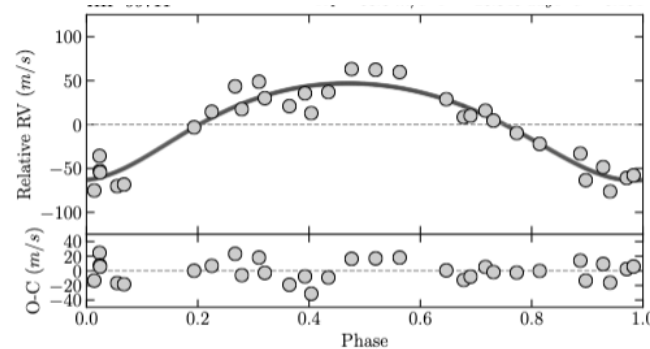
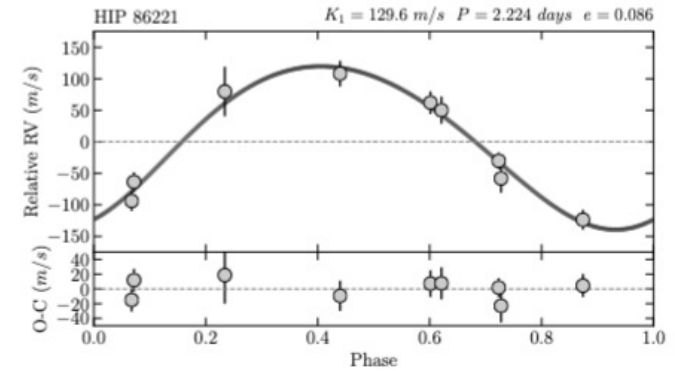
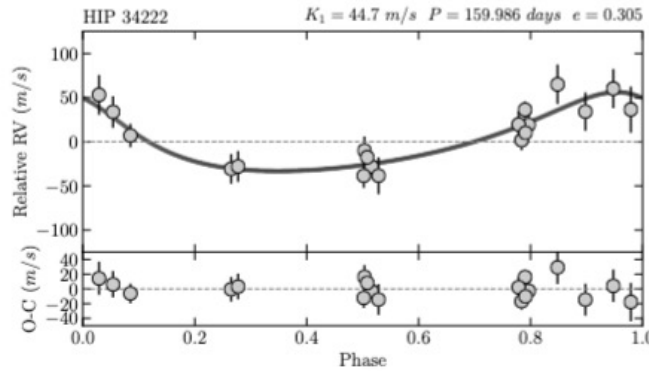
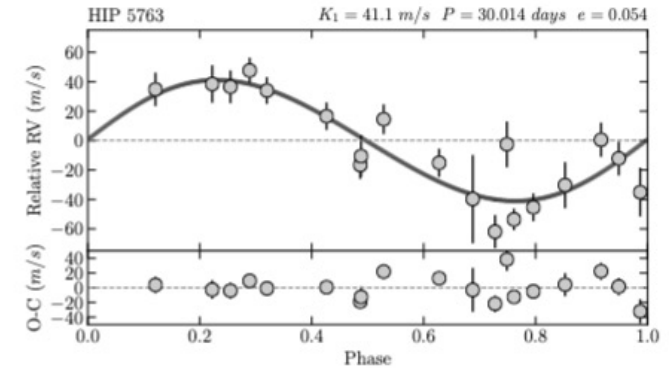
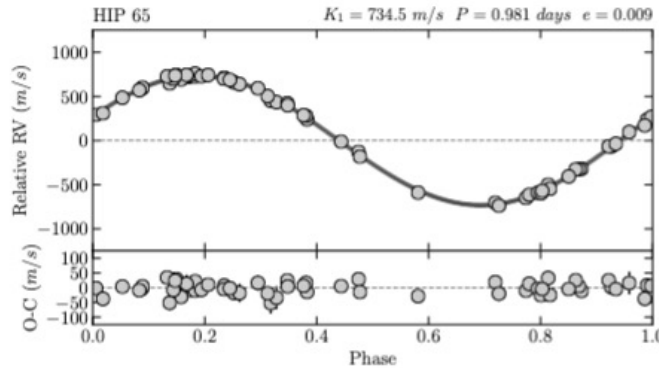
$P_{orb}$  (days)       $M_{sini}$  (Jup)

known

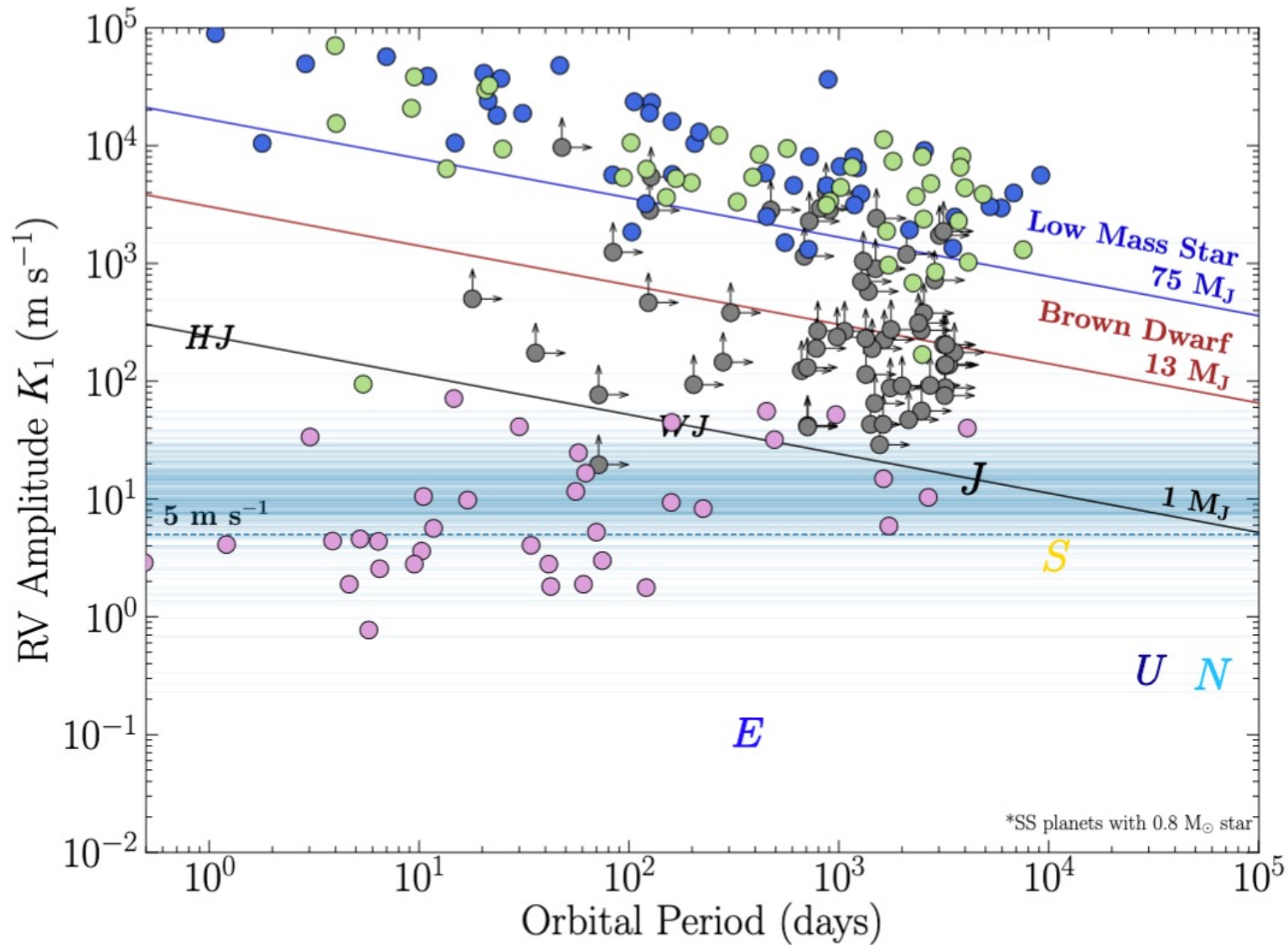
2.2	1.17
3.5	0.50
4.1	0.49
10.7	1.09
23.6	0.63

new

1.0	2.95
2.2	0.71
30.0	0.51
160.0	0.83



# CHIRON Exoplanets



Paredes thesis