Hot Jupiters around young active stars

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What and why?

• Hot Jupiter: massive exoplanet orbiting close to its host star.

• Formed far from the star.
  ➞ Migration?

• Observation of young stars:
  • 300-1000 x younger than Sun.
  • Rotate fast ➞ magnetic activity

• History of Solar System?

Baruteau et al. 2015
How?

Doppler effect

Cross correlation

Period
Semi-major axis
Minimal mass

Mayor & Queloz 1995
How?

- Activity jitter + Planet
- Measured

Data

Model

Filtering

Stokes I
Results

- Detection of TAP 26 b (17 Myr)
- MaTYSYE and SPIRou programmes
  - V830 Tau b (2 Myr) detected before
  - maybe others in the future!