NEAT 2011 Workshop

21-22 November 2011

Forestini Conference Room,
Institut de Planétologie et d'Astrophysique de Grenoble

Grenoble, France

about M dwarfs
M dwarfs:

- dominant stellar population
- Not part of the present NEAT science case
- Can it be an additional science case?

Monday, November 21, 2011
\[ S = \frac{0.33}{1\mu\text{as}} \times \frac{a}{1\text{AU}} \times \frac{m_p}{1\text{M}_\oplus} \times \frac{M_\star}{M_\odot} \times \frac{10\text{pc}}{d} \]
(a direct measure)
\[ \eta_{\odot} = 0.41^{+0.54}_{-0.13} \]
(a direct measure)
SPIROU/CFHT
GIANO/TNG
NAHUAL/GTC
CARMENES

HARPS
HARPS-N
Sophie+

ESPRESSO
~10 cm/s
(smaller sample)
Photometry
Ground / Space

Mearth (and alike)
Conclusion:

- habitable-planet sample will be populated by RVs and Photometry

- NEAT? Yes, for the full characterization of known systems (know the outer planets, better constrain on the mass for the inner planets)