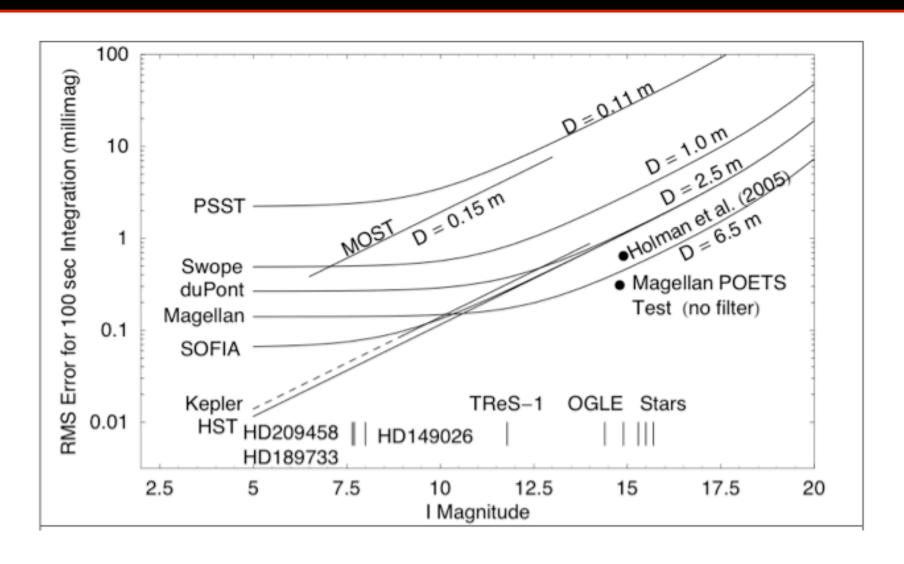


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#### **Ground-Space Comparison**



#### **Many Choices**

- 1. Transits
- 2. Direct imaging
- 3. Radial velocity

- 4. Many small telescopes or
- 5. A few large telescopes or
- 6. A giant telescope

#### **Outline**

- 1. Science goals, mission name (bonus for acronym and logo!!)
- 2. Define telescope and instrument
- 3. Choose geographic location
- 4. Describe major risks
- 5. Estimate total mission cost



## 1. Science goals



- Major science goals and relevance to field
- ▼ Mission name (and acronym/logo)



### 2. Define telescope and instrument



- Wavelength
- **×** Size
- Sensitivity
- **▼** Spectra Resolution
- Angular Resolution



# 3. Describe major risks



- Unusual size
- **▼** New technologies



## 10. Estimate total mission cost



- Telescope
- Instrument
- **▼** Operations