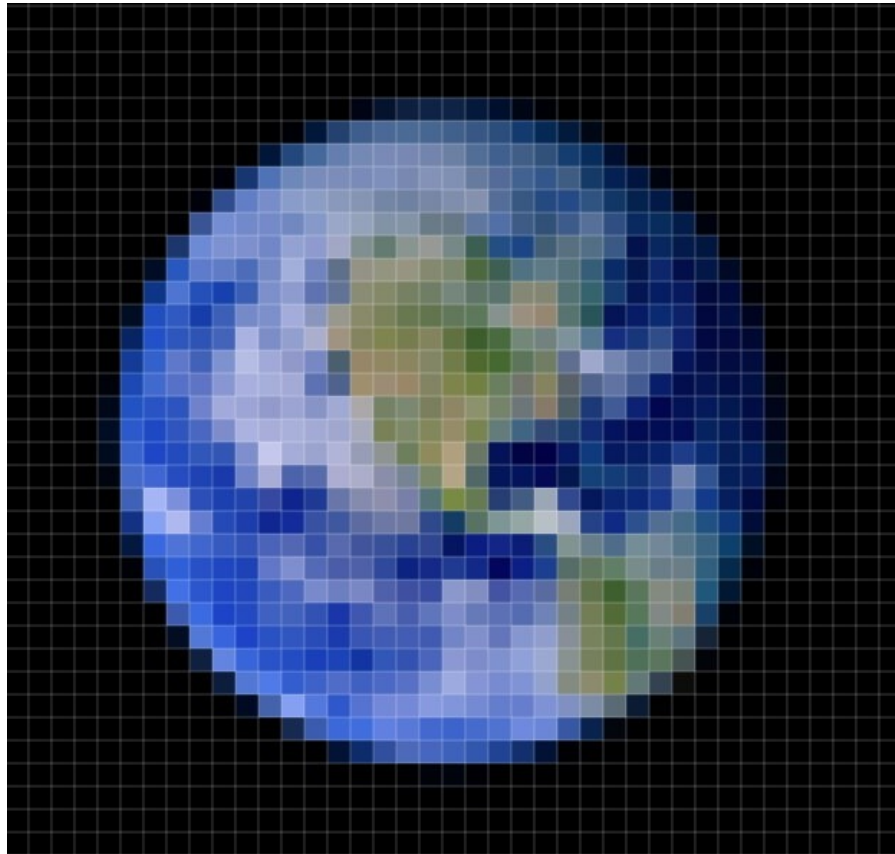


Team project #2

Spectroscopy Interferometry

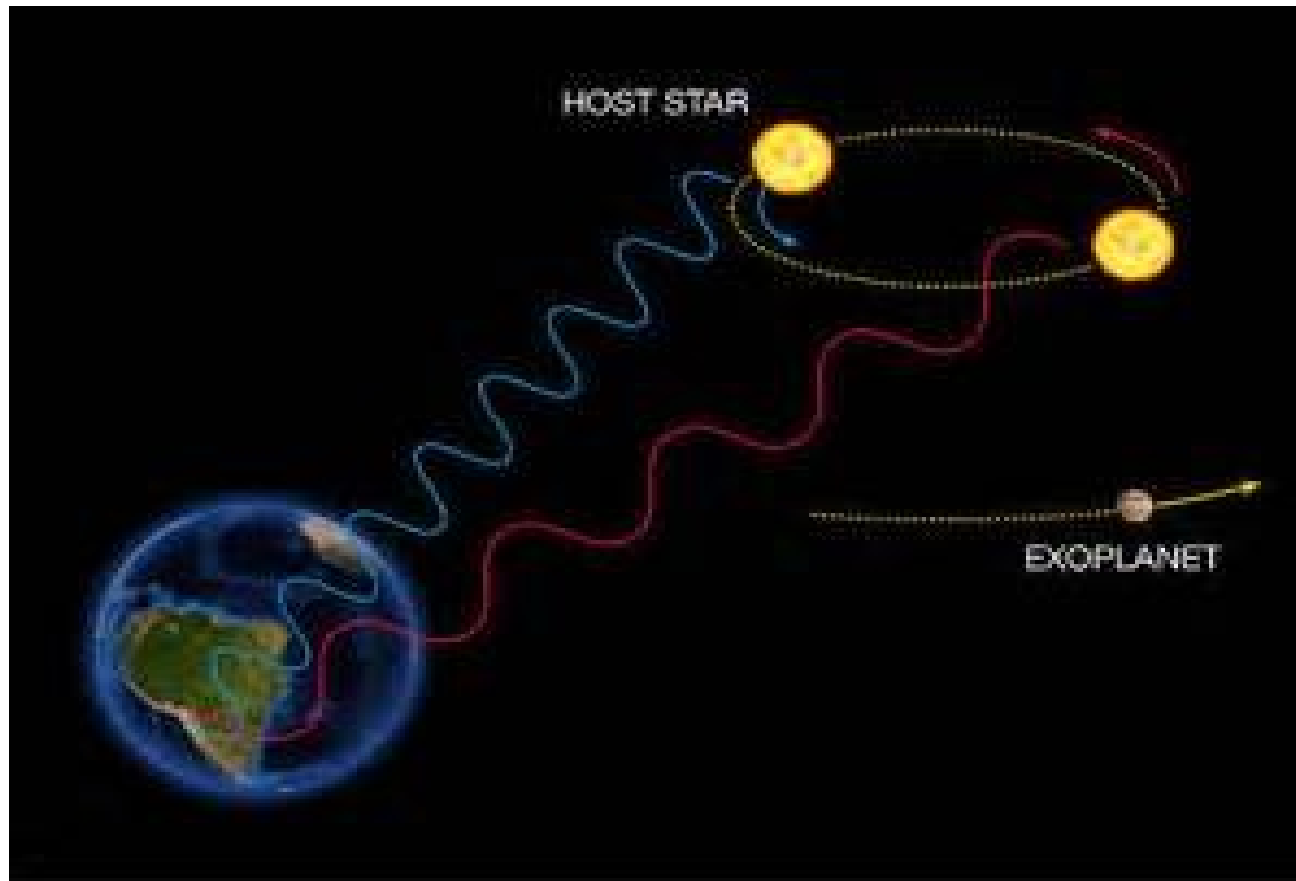
Resolved Exoplanet imaging

Design a space-based interferometer capable of acquiring images of rocky planets with 10-100 pixels across the disk



RV search for Earths

Use the radial velocity technique to identify Rocky planets in the habitable zones of nearby stars, with a sample of ~1000 stars



The Radial Velocity Method

ESO Press Photo 22w/07 (25 April 2007)

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Measure stellar differential rotation

Use interferometry and high resolution spectroscopy to measure stellar differential rotation

Can you also measure stellar masses with this data ?

Sun differential rotation

