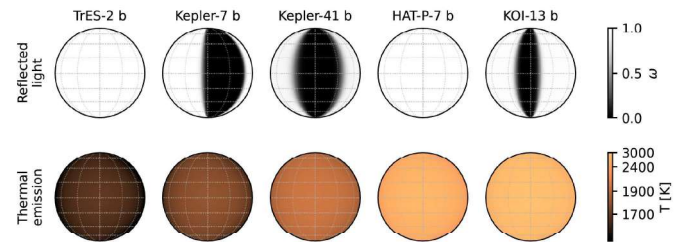


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Morris, Heng & Kitzmann (2024, A&A, 685, A104)

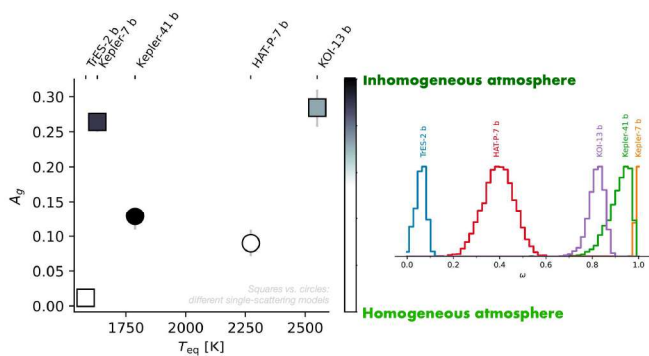
Separating reflected light versus thermal components (with assumptions on the latter)



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Morris, Heng & Kitzmann (2024, A&A, 685, A104)

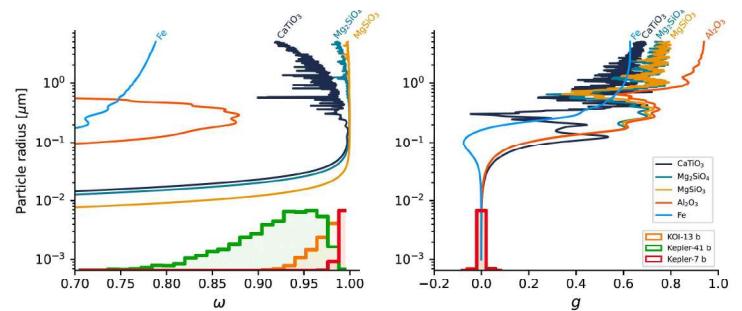
Are hot Jupiters cloudy/hazy? [Kepler data] (The perspective from photometry)



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Morris, Heng & Kitzmann (2024, A&A, 685, A104)

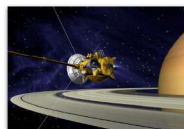
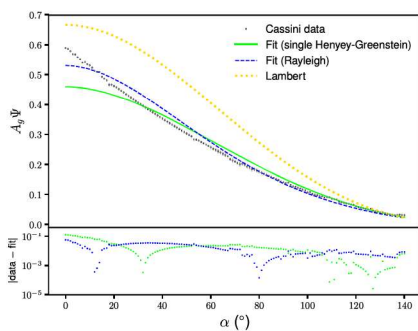
Inhomogeneous atmospheres: constraints on particle radius using Mie theory



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Morris, Heng & Kitzmann (2024, A&A, 685, A104)

A longstanding puzzle with interpreting phase curves of Jupiter [Cassini data]



Cassini "millennium flyby" of Jupiter

Classic reflection laws provide poor fits, especially near the peak

Data have never been interpreted within a Bayesian framework

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Heng & Li (2021, ApJL, 909, L20)

ICARUS 113, 134–155 (1995)

An Experimental Study of Light Scattering by Large, Irregular Particles

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Suggests irregular scatterers are adequately represented by a **double Henyey-Greenstein** reflection law

Note that this is a fitting function *not* based on physics

What is unclear to me is if a good fit using this reflection law implies that the particles are irregular (?)

Essentially, this allows for **simultaneous forward** and **backward scattering lobes**

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