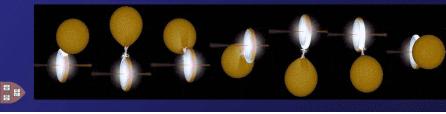


Danny Steeghs

Danny Steeghs **Emission line diagnostics** 0004 Doppler broadened emission The presence of strong and 1000 radial velocity (km/s) characteristic of accretion lines is indeed a key 0 -1000 flows 2000 09 07 20 0

Ne GO

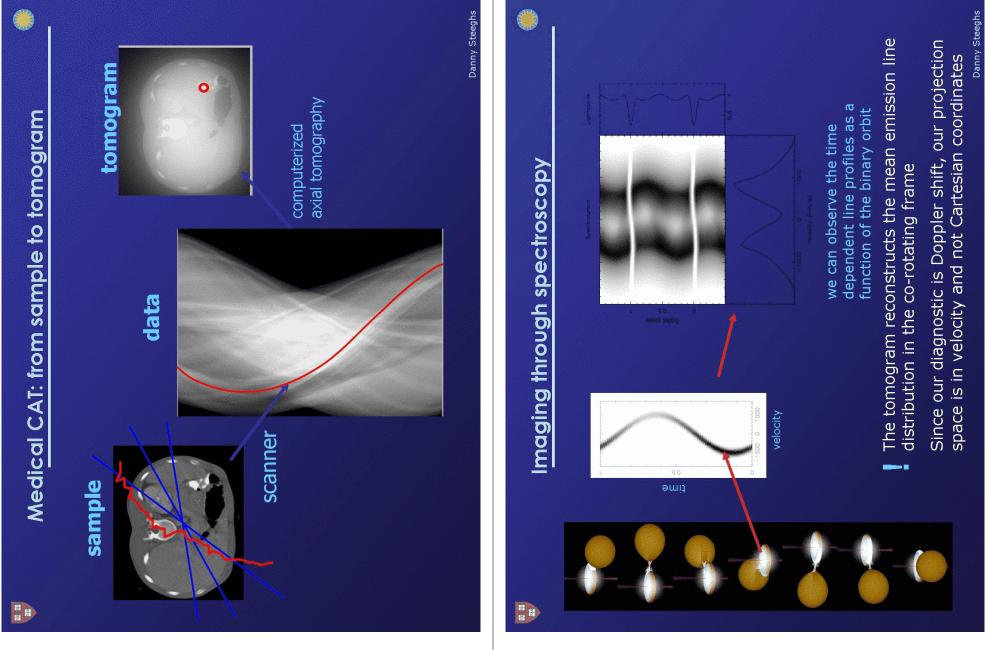


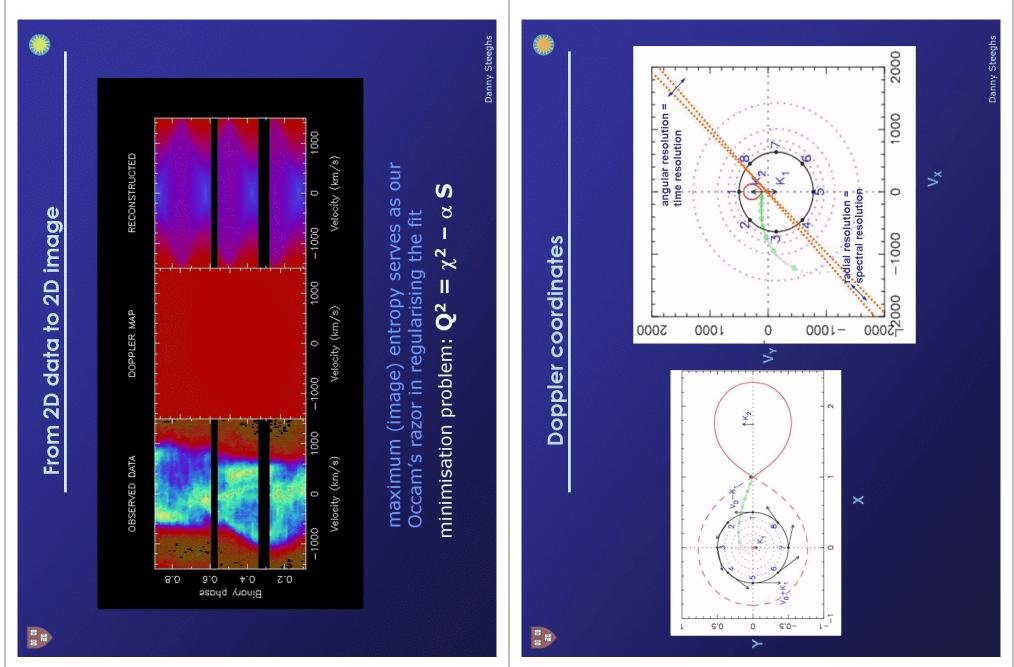
•

Doppler tomography using line profiles

- provide a powerful diagnostic as the binary components go Time-dependent line profiles through their orbits C
- Each spectrum provides a snapshot of the binary dynamics at a given orbital phase = orientation
- the dynamics of accretion = image reconstruction dataset of line profiles that contain sufficient information to invert these into images resolving build up a through (de)projection = tomography Phase-resolved spectroscopy can

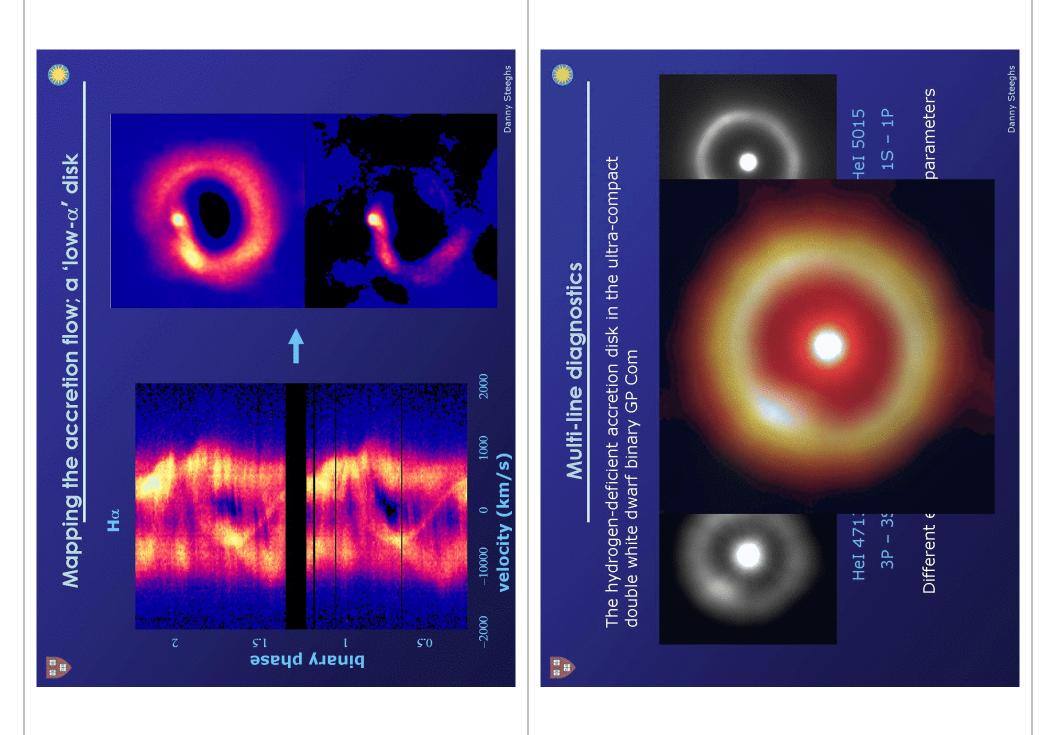
Danny Steeghs

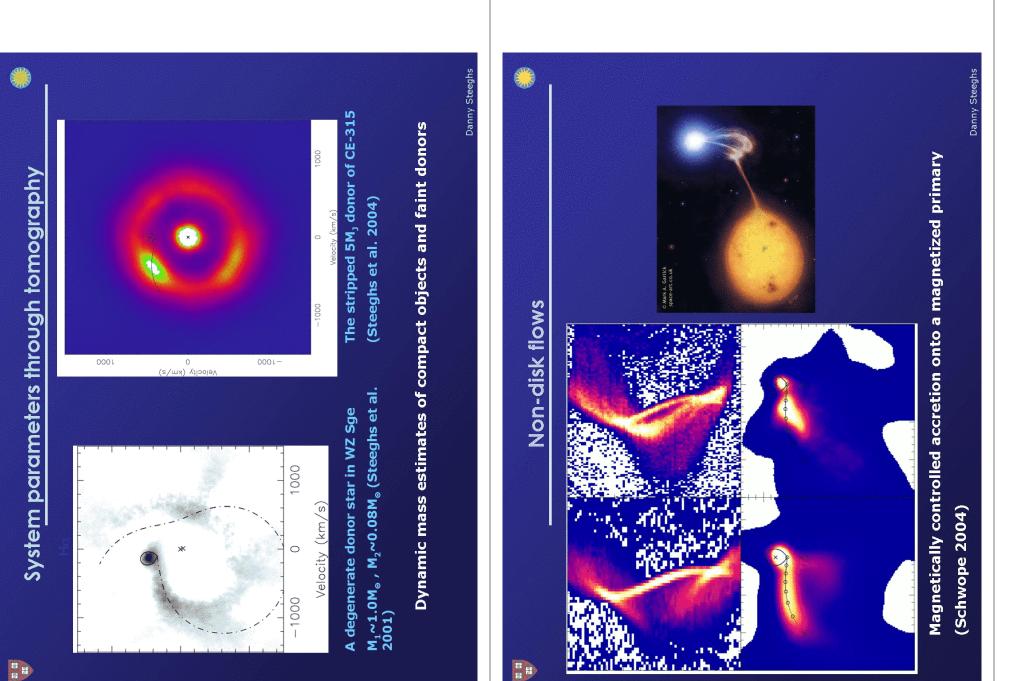


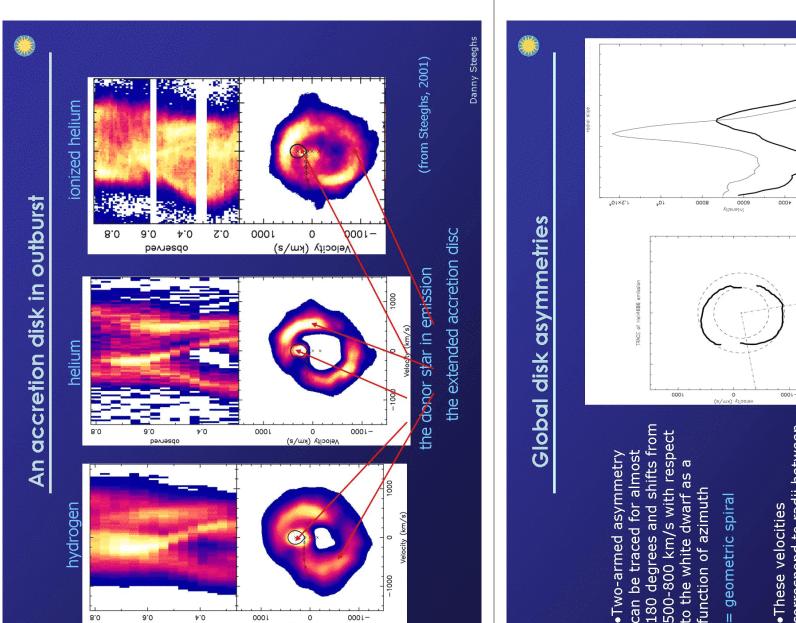


Page 4









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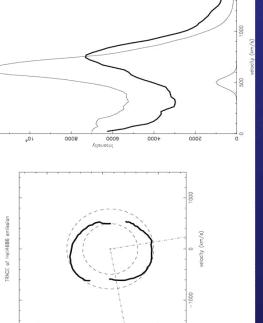
0

Velocity (km/s)

8.0

SS ED

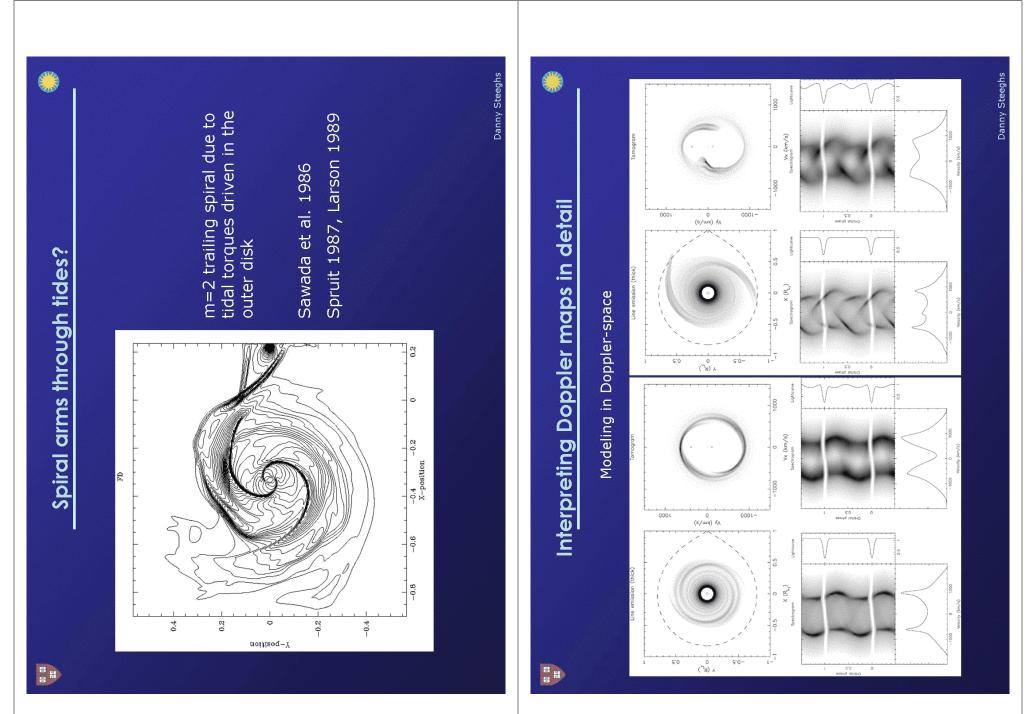
correspond to radii between assuming Keplerian velocity field distance of the L1 point 0.3 and 0.9 times the These velocities

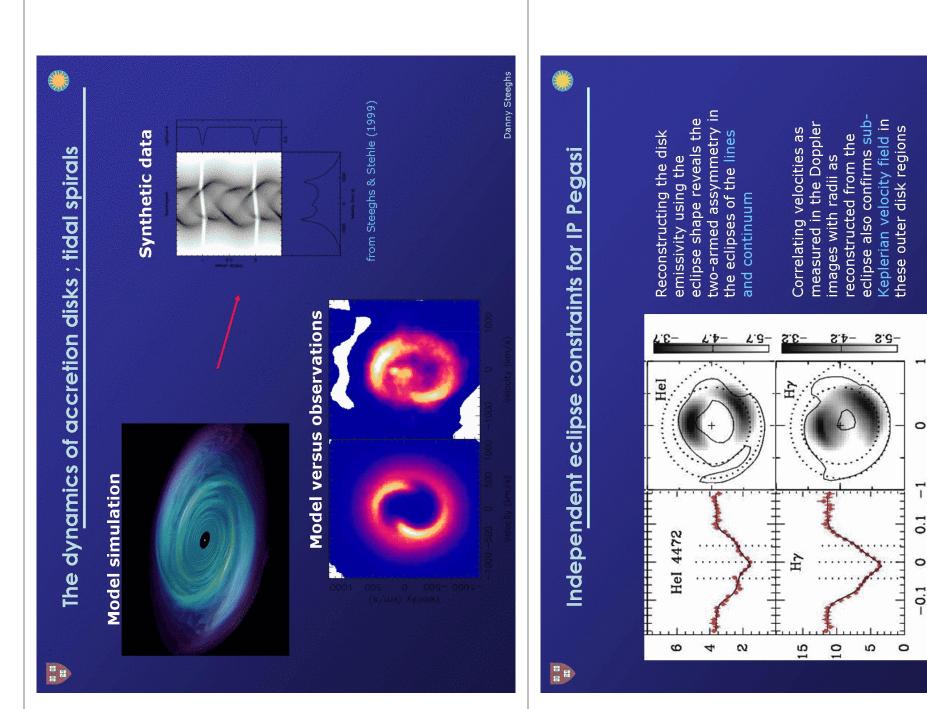


Page 7

Danny Steeghs

(Steeghs 2001)





Danny Steeghs

Baptista et al. 2000; 2005

(R_{L1})

position

orbital phase

