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Expertise relevant for research on extrasolar planets

1. *Abundance analysis* of extrasolar planet host stars
2. Observations and modelling of *surface activity* of host stars in relation to close massive planets
3. Analyses of *spectroscopic multiple stars*
4. Calculation of the effects of transiting/reflecting planets on the spectra of host stars: disentangling effects of pulsation, spotted surface structure and planets
5. *Radiative transfer* in 1-D and 3-D, polarized radiative transfer
6. *Asteroseismology*
 - a) effects of giant planets on the frequency spectra of host stars
 - b) interior structure, composition, internal rotation, fundamental parameters of host stars
7. *Observational techniques*
 - a) High-precision radial velocity
 - b) Very high resolution spectroscopy in the optical and infrared wavelengths
 - c) Spectropolarimetry
 - d) Ultra-precise photometry of host stars from space (MOST, BRITe)
 - e) Coordinated high-resolution spectroscopy at large telescopes + space photometry