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https://doi.org/10.1017/S1743921312000026 Published online by Cambridge University Press

https://doi.org/10.1017/S1743921312000026 Published online by Cambridge University Press

IAU Symposium No. 282
18 - 22 July 2011
Tatranská Lomnica, Slovakia

From Interacting Binaries to Exoplanets: Essential Modeling Tools

In IAU Symposium 282, members of the exoplanet and binary star communities unite for the first time to discuss the state-of-the-art discovery, imaging, modeling, and analysis tools used to study stars, brown dwarfs, and exoplanets in multiple-object systems. They describe detection techniques using advanced telescopes and detectors, including the Kepler mission and the proposed Gaia and LSST projects. Imaging techniques discussed include adaptive optics, interferometry, polarimetry, and tomography, while key modeling tools are covered in detail. Other topics include simulations of formation mechanisms in binary star systems, non-conservative evolution of binary stars, the formation and evolution of planets, and a theory for the structure, atmospheres, and evolution of giant exoplanets. The volume concludes with hydrodynamic simulations, models of planetary atmospheres, and the habitability of exoplanets. These proceedings demonstrate how sophisticated modeling codes bridge the gap between theory and observations, and increase our understanding of binary and multiple systems.

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ISBN 978-1-107-01982-9