Author index

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IAU Symposium

370

8–11 August 2022
Busan, Republic of Korea

Winds of Stars and Exoplanets

Winds form an integral part of astronomy – from regulating rotation of stars through enriching galaxies with fresh materials. Outflowing winds persist during the entire lives of stars and play a key role in shaping the exoplanet demographics we observe. In massive stars, their winds are a vital ingredient of their evolution, from the main sequence to the pre-supernova stage, determining black hole masses as measured from gravitational waves. In the case of low-mass stars, their winds dictate rotational evolution, which affect angular momentum distribution within the stellar interior and thus the generation of magnetic fields. In the case of planets, winds take the form of atmospheric escape, which can strongly affect their atmospheric evolution. IAU Symposium 370 brought together researchers on winds of exoplanets and stars, including the solar wind, to share insights into the physics and modelling tools used by these different communities.

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