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IAU Symposium

378

12–16 March 2023
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Black Hole Winds at All Scales

IAU Symposium 378 covers one of the main astrophysical topics about black holes: the production of outflows, propagating at different scales. In the past decade, evidence has been mounting about the role of outflows in the evolution of the surrounding environment, in particular their so-called "feedback" effect on the star-forming capabilities of the galaxy hosting the black hole. This broad topic brought together observers of many different wavebands, with a multitude of observational aspects being presented, including latest results from JWST, GRAVITY, Hubble, ALMA, and VLBA. Sessions were also dedicated to theoretical aspects of black hole outflows, discussing a variety of simulations for magnetic and thermally driven winds, cases from extreme mass accretion rates to advection dominated flows, and topics of radiative driving and radiative transfer. These proceedings provide a picture of the field's status, highlighting currently debated topics, and suggesting possible new routes for the future developments.

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