



The Heliosphere and the Interstellar Medium- New Discoveries from IBEX

Lukas Saul (1), Peter Wurz (1), Dave McComas (2), Diego Rodriguez (1), Stephen Fuselier (2), Harald Kucharek (3), and Eberhard Moebius (3)

(1) University of Bern, Physikalisches Institut, Space & Planetary Sciences Division, Bern, Switzerland
(saul@space.unibe.ch), (2) Southwest Research Institute, San Antonio, TX, USA, (3) University of New Hampshire, Durham, NH, USA

NASA's Interstellar Boundary Explorer mission has had more than four years of successful science return and turned many ideas about the physics of the outer heliosphere upside-down. We review here some of the exciting discoveries made by this spacecraft, including implications for the magnetic fields and particle populations that shape our astrosphere. We focus in particular on the direct detection of the interstellar wind entering our solar system by IBEX-LO, presenting recent measurements of the neutral Hydrogen population as well as other species.