

## Astrophysics Opportunities from an Interstellar Probe

Charles Beichman (1)  
(1) CALTECH, CA, USA

### Abstract

As Humankind's first explicit step into the Interstellar Medium, the Interstellar Probe will offer a unique opportunity to explore *in situ* the different components of the ISM (gas, dust, plasmas and charged particles, cosmic rays, electromagnetic radiation, interstellar magnetic field...) which all play an important role in the cycle of fields and matter in the Galaxy.

This talk will address the astrophysical significance of observations to be made by the Interstellar Probe and will highlight some of the most important astrophysics questions which the suite of ISP investigations will open to our inquiry.