

Planetary and Heliospheric ENAS

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The intentional detection of Energetic Neutral Atoms (ENAs) with dedicated spacecraft instrumentation became possible only in the recent decade with the development of specialised ENA instruments. Presently, ENA observations are conducted in the energy range from a few eV to MeV with a variety of instruments placed on several spacecraft. The recorded ENAs are nowadays used for remote sensing of planetary magnetospheres (from Mercury out to Saturn) and even for the interface of the heliosphere with the surrounding interstellar medium. The advantage of ENAs is in the recording of global ENA images that complement the local plasma measurements nicely to attain a full understanding of the involved physical processes. I will present a review of these ENA measurements.