NIC XII - Satellite workshop on r-process nucleosynthesis

Contribution ID: **1** Type: **not specified**

New UV Observations of Exotic Heavy Elements in Metal-Poor Stars

Saturday, 4 August 2012 10:45 (30 minutes)

We present new abundance determinations of the heavy elements germanium (Ge, Z=32), arsenic (As, Z=33), selenium (Se, Z=34), and tellurium (Te, Z=52) in several metal-poor stars enriched with r-process material. These recent results mark the first detection of As, Se, and Te in an r-process environment beyond the solar system. In addition, detection of the elements at the third r-process peak in some of these stars enable us to constrain the relative abundances of all three r-process peaks, which may pose a challenge to theory in some cases.

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Session Classification: Observations & Data