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

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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.

Primary author: Dr ROEDERER, Ian (Carnegie Observatories)

Presenter: Dr ROEDERER, Ian (Carnegie Observatories)

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