

Tuesday, March 19, 2013
POSTER SESSION: (PROTO)SOLAR NEBULA II: ISOTOPE ANOMALIES
 6:00 p.m. Town Center Exhibit Area

[T603]

- Yu T. Meyer B. S. *POSTER LOCATION #23*
[Yields in Simple Models of Dense Thermonuclear Supernovae](#) [#1998]
 Our calculation of simple models of dense thermonuclear supernovae shows that in such low entropy condition there could be a lot of n-rich isotopes produced.
- Steele R. C. J. McKeegan K. D. Liu M. C. *POSTER LOCATION #24*
[Titanium Isotope Anomalies in CM Hibonites: Nucleosynthetic Sources and Mixing in the Early Solar System](#) [#2967]
 Titanium-isotope anomalies in hibonite grains have been used to investigate nucleosynthetic sources and mixing processes in the early solar system.
- Akram W. M. Schönbächler M. *POSTER LOCATION #25*
[Zirconium Isotope Evidence for Dust Processing in the Early Solar Nebula](#) [#2138]
 Bulk rock solar system material has Zr-isotope anomalies, characteristic of a heterogeneous distribution of s-process material, from different sources.
- Fukami Y. Yokoyama T. Okui W. *POSTER LOCATION #26*
[Tellurium Isotope Compositions in Sequential Acid Leaching Samples of Carbonaceous Chondrites](#) [#2038]
 We present data of Te-isotopic compositions in acid leachates of Murchison (CM2), Allende (CV3), and Tagish Lake (C2-ung) measured by N-TIMS.
- Nagai Y. Yokoyama T. *POSTER LOCATION #27*
[Molybdenum Isotope Anomalies in Allende and Murchison Meteorites](#) [#2373]
 We report Mo-isotopic compositions for Allende (CV3.6) and Murchison (CM2) by N-TIMS. They have Mo-isotope anomalies characterized by s-process deficit.
- Burkhardt C. Schönbächler M. *POSTER LOCATION #28*
[Nucleosynthetic Tungsten Isotope Anomalies in Acid Leachates of the Orgueil, Murchison and Allende Carbonaceous Chondrites](#) [#1912]
 Our W leachate data provide new insights into W nucleosynthesis and nebular and parent body processing of presolar materials.
- Cook D. L. Kruijer T. S. Kleine T. *POSTER LOCATION #29*
[¹⁸⁰W Anomalies in Iron Meteorites: Implications for p-Process Heterogeneity](#) [#1097]
 Measurements of ¹⁸⁰W in iron meteorites and metal from the CB chondrite Gujba do not indicate a heterogeneous distribution of p-process isotopes in the nebula.
- Peters S. T. M. Münker C. Becker H. Schulz T. *POSTER LOCATION #30*
[Tungsten-180 Anomalies in Iron Meteorites Reflect Alpha Decay of Osmium-184](#) [#2073]
 Combined ¹⁸⁰W isotope and Os-W concentration data indicate that α -decay of ¹⁸⁴Os, previously considered stable, explains ¹⁸⁰W anomalies in iron meteorites.
- Wittig N. Humayun M. Leya I. *POSTER LOCATION #31*
[Nucleosynthetic and Cosmogenic Palladium Isotope Anomalies Resolved in IVB Irons](#) [#2355]
 We present new and highly precise Pd-isotope data for IVB irons, which coupled to W-Os-Pt-isotope data, reveal cosmogenic and nucleosynthetic isotope anomalies.

Hidaka H. Yoneda S.

POSTER LOCATION #32

[Systematic p-Process Isotopic Excesses of Sr, Ba, Ce and Sm Observed in the Chemical Separates of the Kapoeta Meteorite](#) [#1867]

Sr-, Ba-, Ce-, Nd-, Sm-, and Gd-isotopic compositions of the chemical separates of Kapoeta were determined to find systematic p-process isotopic anomalies.

Bermingham K. R. Mezger K. Scherer E. E. Carlson R. Horan M. et al.

POSTER LOCATION #33

[Barium Isotope Abundances in Meteorites: Implications for Early Solar System Evolution](#) [#1734]

New Ba-isotope data from thermally unequilibrated chondrites indicate that Ba isotopes were homogeneously distributed throughout the solar system.

Bermingham K. R. Mezger K. Horstmann M. Scherer E. E.

POSTER LOCATION #34

[Evidence for Extinct \$^{135}\text{Cs}\$ from Ba Isotopes in Allende Inclusions?](#) [#1732]

New Ba-isotope data from Allende CAIs may provide direct evidence for live ^{135}Cs in the early solar system.

Antonelli M. A. Peters M. Farquhar J.

POSTER LOCATION #35

[Multiple Sulfur Isotope Analyses of Iron Meteorites: Implications for Nebular Evolution](#) [#1279]

This abstract presents the multiple sulfur-isotopic compositions of 61 different iron meteorites from 8 different chemical groups, and their implications.

Bowers M. Kashiv Y. Collon P. Lu W.

POSTER LOCATION #36

[Experimental \$^{33}\text{S}\(\alpha,p\)^{36}\text{Cl}\$ Reaction Cross-Section and \$^{36}\text{Cl}\$ Production in the Early Solar System](#) [#2543]

Results of the $^{33}\text{S}(\alpha,p)^{36}\text{Cl}$ cross section measurement will be discussed and other possible important reactions for ^{36}Cl production in the early solar system.