Wednesday, March 21, 2018 **[W405]**
PROTOPLANETARY DISKS II: MASS IMMIGRATION
8:30 a.m. Montgomery Ballroom

Chairs: **Qing-Zhu Yin**
Jessica Arnold

8:30 a.m. Bojazi M. J. * Meyer B. S.
Neutron Star Mergers and the Short-Lived r-Process Radioactivities **[#2890]**
Neutron star mergers and massive star shell nucleosynthesis can explain the early solar system abundances of iodine-129 and hafnium-182. (Hooray for LIGO!)

8:45 a.m. Dwarkadas V. V. * Dauphas N. Meyer B. Boyajian P. Bojazi M.
Triggered Star Formation at the Periphery of the Shell of a Wolf-Rayet Bubble as the Origin of the Solar System **[#1304]**
Triggered star formation in the dense shell of a wind-blown Wolf-Rayet bubble can explain the high ^{26}Al and low ^{60}Fe abundance in the early solar system.

9:00 a.m. Schneider A. E. * Young E. D.
Wolf-Rayet Stars and the Origin of Solar Short-Lived Radionuclides **[#2115]**
We propose a statistical model for ^{26}Al production in which we compare abundances of the short-lived radionuclide from massive winds and supernovae.

9:15 a.m. Jackson A. P. * Tamayo D. Hammond N. Ali-Dib M. Rein H.
Ejection of Rocky and Icy Material from Binary Star Systems: Implications for the Origin and Composition of 1I/`Oumuamua **[#1583]**
We suggest that rocky interstellar objects like 1I/`Oumuamua are likely predominantly sourced from intermediate mass (A or late B-type) binary star systems.

9:30 a.m. Ek M. * Hunt A. C. Schönbächler M.
The Zr-Mo-Ru-Pd Correlation: Evidence for Incomplete Condensation Around AGB Stars and Selective Processing of Stardust in the Solar Nebula **[#1973]**
We propose that the slope of the Mo-Ru-Pd correlation reflects incomplete condensation of Pd around AGB stars based on new Pd isotope data for iron meteorites.

9:45 a.m. Boehnke P. * McKeegan K. D. Stephan T. Steele R. C. J. Trappitsch R. et al.
Large Mass-Dependent Nickel Isotope Fractionation in Orgueil Carbonate: Implications for Fe-60 in the Early Solar System **[#2190]**
Measurements of nickel isotopes in carbonates from Orgueil show low Fe-60 in the early solar system, but significant (~35 ‰/u) mass-dependent fractionation.

10:00 a.m. Yokoyama T. * Fukai R. Tsujimoto T.
Meteoritical Perspective on the Origin of r-Process Nuclides in the Solar System **[#1159]**
We analyzed previous isotope data of trans-Fe elements and newly obtained Yb isotope data in meteorites to discuss the origin of r-nuclides in the solar system.