Tuesday, July 24, 2018
EXPOSURE HISTORY AND DELIVERY METEORITES FROM ASTEROIDS
3:45 p.m. Red Room

Chairs: **Pavel Povinec**
Ingo Leya

3:45 p.m. Beard S. P. * Weimer D. Busemann H. Maden C. Swindle T. D.
^{21}Ne Cosmic-Ray Exposure Ages of Brachinites and Brachinite-Like Achondrites **[#6170]**
The majority of studies on brachinites have focused on petrology and bulk chemistry, with little focus on chronology. We investigate the exposure history of 15 brachinite/brachinite-like samples for the purpose of finding possible age clusters.

4:00 p.m. Li S. J. Leya I. * Li S. J. Thomas S. Li Y.
Petrography and Cosmic-Ray Exposure History of Alatage Mountain 001 L-Chondrite Shower **[#6253]**
The petrographic characteristics and CRE ages of AM 001 were reported.

4:15 p.m. Povinec P. P. * Alexeev V. A. Laubenstein M. Ustinova G.
Cosmogenic Radionuclides in Chondrites with Known Orbits: Implications for Cosmic-Ray Gradients in the Heliosphere **[#6181]**
GCR gradients in the solar system during different stages of Sun activity were estimated using cosmogenic radionuclides found in meteorites. ^{54}Mn, ^{22}Na and ^{26}Al were used for studies of their production rates in seven chondrites with known orbits.

4:30 p.m. Emel'yanenko V. V. *
Origin of Meteorites Near the Sun **[#6143]**
We present results of our dynamical studies of a few meteorites with short cosmic ray exposure ages. We show that with a significant probability these objects had recent encounters with the Sun.

4:45 p.m. Ustinova G. K. * Alexeev V. A.
Meteorite Patrol Service for Studying Temporal and Spatial Variations of Galactic Cosmic Rays in the Internal Heliosphere **[#6056]**
The meteorites are unique cosmic objects, which supply us with invaluable information about the early solar system. We would like to pay attention to a possibility of using fallen chondrites to study of contemporary processes in the heliosphere too.