

Monday, April 24, 2017
POSTER SESSION I:
EXOPLANETS: HABITABILITY:
IONIZING RADIATION AS A CONSTRAINT ON HABITABILITY
7:00 p.m. Main Hall

Laine P. E.

[*The Role of Cosmic Rays in the Origin of Life*](#) [#3024]

This paper will try to estimate the effects of cosmic rays on habitability, formation of organic molecules, and origin and evolution of life.

Osby E. O. Shkolnik E. S. Hinkel N. ASU NExSS Team

[*The Ultraviolet Properties of the Hypatia and ExoCat Catalogs: A Guiding Characteristic of Habitability*](#) [#3578]

The work done to provide NExSS with the near- and far-ultraviolet emissions of the stars provided in their catalog to guide in search for habitability.

Gronoff G. Airapetian V. Hebrard E.

[*Prebiotic Chemistry of Early Mars: Effects of Paleo Space Weather*](#) [#3552]

The solar energetic particles events from the young sun led to the creation of greenhouse gases in the martian atmosphere.

Hudson R. L. Loeffler M. J.

[*Radiation Chemical Results from Icy Molecular Solids — Searching for Sulfur*](#) [#3188]

The influence of ionizing radiation on icy solids containing sulfur-bearing molecules, both organic and inorganic, will be reviewed and new results presented.