

## Radioactive nuclei of the cosmic radiation in an inhomogeneous interstellar medium

R. E. Streitmatter<sup>1</sup> and S. A. Stephens<sup>2</sup>

<sup>1</sup>NASA Goddard Space Flight Center, Greenbelt MD, USA 20771

<sup>2</sup>NASA Goddard Space Flight Center

**Abstract.** Radioactive clock nuclei such as those of Be, Al, and Cl allow a distinction between the amount of material in the ISM encountered by the cosmic radiation and the lifetime of the cosmic radiation. Numerically solving in the time domain the coupled differential equations which govern the transport of the cosmic radiation, we consider the conse-

quence of an inhomogeneous ISM on the relative abundances of radioactive clock nuclei.

---

*Correspondence to:* R. E. Streitmatter  
(Streitmatter@cosmicra.gsfc.nasa.gov)