

Galactic and Anomalous Cosmic Rays: Interpreting the Recent Voyager Observations

JACK R. (RANDY) JOKIPII

University of Arizona

Theoretical understanding of galactic and anomalous cosmic rays will be discussed in the light of recent Voyager observations near and beyond the heliospheric termination shock. A consensus picture has evolved over the past two decades, which accounted well for most observations. But these were taken significantly inside of the termination shock. In this picture, the termination shock and heliosheath were played a significant role. It was therefore to be expected that the availability of observations from near and beyond the shock would present major new challenges to the observations. The observations, their interpretation, and effects on theoretical models will be discussed.