Project Details

ROSES ID: NRA-02-OSS-01
Selection Year: 2003
Program Element: Independent Investigation: LWS

Project Title:
A Neutron Spectrometer for Solar Sentinel

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Summary:
We propose to develop a solar neutron spectrometer/telescope for deployment on a Solar Sentinel. Measuring neutrons below 10 MeV from solar activity requires a platform much closer to the Sun than 1 AU. These neutrons carry information about the spectrum and composition of energetic particle populations on the Sun. To effectively use these neutrons, one must measure them rather than simply detect them. To that end, we propose to develop an instrument that performs the necessary spectroscopy to remove the neutron spectrum velocity dispersion. It also is designed to image a neutron source as a means to minimize the count rate from directions other than the Sun.

Publication References:

Summary: ”

Reference: Ryan, James UNH - A Neutron Spectrometer for Solar Sentinel

Summary: no summary

Reference:

Summary: no summary

Reference: