

## **ROGUE SEP EVENTS: MODELING**

**M.-B. Kallenrode** (1) and E.W. Cliver (2)

(1) Univ. of Osnabrück, Osnabrück, Germany, (2) AFRL/VSBS, Hanscom AFB, USA.

Rogue events (see Cliver and Kallenrode) are associated with multiple shocks and CMEs. We present a numerical model based on the focused transport equation that incorporates shocks as moving particles sources and magnetic clouds as transient modifications of the interplanetary focusing length. This model allows to simulate the effect of multiple shocks and CMEs on particle populations. Special attention is paid to pairs of converging shocks which are believed to play an important role in the formation of large events such as the August 72 SPE.