

CORRELATIVE STUDY OF FLARES ASSOCIATED WITH SUNQUAKES

Martínez-Oliveros J.C, Donea A.-C and Cally P.S.

*Centre for Stellar and Planetary Astrophysics,
School of Mathematical Sciences, Monash University, Victoria 3800,
Australia*

Multi-wavelength studies of energetic solar flares with seismic emissions have revealed some interesting common features that may help us to identify the linkage of various signatures from the interior to the outer atmosphere and develop diagnostic techniques to aid in their detection. In our study, we make use of the close relationship between the microwave and the hard X-ray emissions associated with such flares to propose a possible scenario that could explain the observations. We explore the possible relation of this scenario with different mechanisms of energy transport to the photosphere, such as back-warming or direct particle impacts.