



Statistical Analysis of Decimetric Radio Bursts, Flares and Coronal Mass Ejections

G. Michalek (1), K. Puchowska (1), A. Rams (1)

(1) Astronomical Observatory of Jagiellonian University

The statistics analysis of decimetric radio bursts, X-flares and coronal mass ejection (CMEs) are carried out. For this purpose we use data from Cracow Solar Radio Telescope from the beginning of 1996 until the end of 2004. It is found that the decimetric radio burst are strongly correlated with X-flares. Correlation coefficients between duration and maximal fluxes of the radio bursts and flares are equal 0.60 and 0.82, respectively. We also demonstrated that some decimetric radio bursts (that appearing after CMEs onsets) are correlated with associated CMEs (a correlation coefficient between the maximal flux density multiplied by duration of RBs and velocity multiplied by width of CMEs is equal 0.55).