



Contribution ID : 61

Type : **Poster**

## **Study of Semi-diurnal Anisotropy of Cosmic Rays with Interplanetary Parameters**

### **Abstract content**

The semi diurnal anisotropy of cosmic ray Intensity for four different groups of days i.e. 60 Quiet days (60 QD), 120 Quiet days (120 QD), continuous Quiet days (CQD) and all days (AD) have been analysed with planetary index  $A_p$ , Interplanetary magnetic field (B) and solar wind velocity (V) for the period 1985 to 1995. The annual average values of semidiurnal amplitude and phase are observed to show quite similar variation within the statistical errors. The amplitude of semi diurnal anisotropy for all four types of days is confined over a low range (0.00 to 0.32%) and significant variations in interplanetary parameters (B, V &  $A_p$ ) with cosmic ray intensity is observed as well. A large value of ratio of  $A_p$  index on AD with other group of days implies that the number of disturbed days in the year is comparatively large, then the disturbed days changes the general trend of variation of semi diurnal anisotropy and must be removed from all days so as to read a better trend study.

**If this paper is presented for a collaboration, please specify the collaboration**

### **Summary**

### **Reference**

**Primary author(s) :** Dr. CHAUHAN, M.L. (GOVERNMENT MODEL SCIENCE COLLEGE, JABALPUR, (M.P.), INDIA)

**Co-author(s) :** Mrs. JAIN, Alka (Government Model Science College, Jabalpur); Dr. SHRIVASTAVA, S.K. (Government Model Science College, Jabalpur); Dr. RICHHARIA, M.K. (Government Model Science College, Jabalpur)

**Presenter(s) :** Dr. CHAUHAN, M.L. (GOVERNMENT MODEL SCIENCE COLLEGE, JABALPUR, (M.P.), INDIA)

**Session Classification :** Posters 3 + Coffee

**Track Classification :** SH.3.4