

# **Study and effect of IMF and solar wind velocity in CR modulation**

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The high amplitude wave train events (HAEs) of cosmic ray intensity observed during 1981-1994 were analyzed. We have studied the effect of southward component ( $B_z$ ) of interplanetary magnetic field (IMF) and solar wind velocity on cosmic ray diurnal anisotropy. The neutron monitor data of Deep River station has been used in the present analysis. It has been observed that HAEs are weakly dependent on high-speed solar wind velocity. The occurrence of HAE is dominant for positive polarity of southward component ( $B_z$ ) of IMF. The diurnal time of maximum significantly shifts towards earlier hours as compared to the azimuthal/corotational direction for majority of the HAEs during the period of investigation.