

Solar modulation models : a diffusion tensor study

P. Bobik (1), K. Kudela(1), M. Boschini (2), D. Grandi (2), M. Gervasi (2), P.G. Rancoita (2)

Institute of Experimental Physics SAS (Watsonova 47, 040 01 Kožice, Slovak Republic, bobik@saske.sk / Fax: +421 55 633 62 92), (2) INFN Milano (P.zza delle Scienze 3, 20126 Milano, Italy, grandi@mib.infn.it)

We developed a 2D and 3D stochastic simulation models of GCR (galactic cosmic rays) propagation in the heliosphere. Drift effects are taken in account in the solar modulation model. We analyze the dependence of diffusion tensor at momentum and ratio between parallel and perpendicular diffusion coefficient to particle distribution in the heliosphere. The models results has been compared with measured data.