



Interplanetary shocks: Influence of upstream conditions on shock front parameters

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More than 20 interplanetary (IP) shocks were detected in the second half of the 2011 year and this fact indicates the beginning of the new cycle of solar activity. The presence of many spacecraft in space allows a more detailed and quantitative study of the IP shocks because their propagation through the solar wind, their modification just upstream the bow shock and interaction with the bow shock and magnetopause are key problem of the Space Weather Program. Moreover, a new spacecraft providing monitoring of the solar wind conditions, Spektr-R, can significantly help with this task because the onboard BMSW instrument measures solar wind parameters with a unique resolution of 30 ms. Thus, the main goal of this study is a detailed analysis of the front edges of IP shocks and investigation of their dependence on upstream solar wind parameters.