



Space radiation quantities obtained aboard ExoMars Trace Gas Orbiter during the transit and in Mars orbit

Jordanka Semkova (1) and the Liulin-MO-FREND Team

(1) Space Reserch and Technology Institute-BAS, Sofia, Bulgaria (jsemkova@stil.bas.bg), (2) Space Research Institute, Russian Academy of Sciences, Moscow, Russia, (3) State Scientific Center of Russian Federation, Institute of Biomedical Problems, Russian Academy of Sciences, Moscow, Russia

Since April 2016 the dosimetric telescope Liulin-MO has been conducting radiation environment investigations aboard the Trace Gas Orbiter (TGO) of the joint ESA-Roscosmos mission ExoMars. Liulin-MO is a part of the Fine Resolution Epithermal Neutron Detector aboard TGO. Presented are data for the ionizing radiation dose rates, particle fluxes and dose equivalent rates measured during the cruise to Mars and in high elliptic Mars orbit. Data obtained are compared to the data of other radiation measurements in the interplanetary space.