

## POSSIBILITY TO FORMATION OF LUNAR DUSTY PLASMA WITH WEAK MAGNETIC PROPERTIES

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In the study of the Moon a lot of attention is paid to the formation of dusty plasma near lunar surface and analysis of this plasma parameters. The great importance is played by the chemical composition of lunar soil particles, which form the dust component of this plasma. In addition, during the years of lunar exploration with the help of satellites, it was established day and night temperature distributions on its surface, as well as the residual magnetization therein. An important feature of these distributions is their substantial dissimilarity. Almost simultaneously in the work of researchers from different countries were studied changes in the magnetic properties of a number of substances when they are exposed to light. The chemical composition of these substances, temperature ranges, energy and spectral parameters of optical radiation, which is required for these processes, are according to the corresponding data on the Moon. The appearance of the dusty plasmas above lunar surface with even weak magnetic properties, may provide additional opportunities for its sustaining and new effects due to the passage of the Moon through Earth's magnetosphere.