

# **The kinetic models of the solar wind acceleration**

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The suggested kinetic models are applied to the description of the stationary solar wind with spherical symmetry. The assumptions of quasineutral and currentless fully ionized hydrogen plasma is used for calculation of the number density and the speed of the solar wind. The influence of the given Sun's magnetic field on plasma flow acceleration is analyzed. The theoretical results are compared to other models and to the observational data.