



Comparative analysis of physical parameters of atmospheres of giant planets of the Solar System taking into account Raman scattering effects.

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There are some physical parameters of giant planet atmospheres such as single scattering albedo, τ_a/τ_R , τ_K/τ_R and $\beta = \frac{\tau_R}{\tau_R + \tau_a}$ are presented at the report. Researches are carried out based on high-resolution spectral data obtained for Jupiter, Saturn, Uranus and Neptune with help of the coude echelle spectrometer fed by the 2-m telescope at the Terskol observatory (Northern Caucasus). Calculations are realized taking into account Raman light scattering for hydrogen molecules in visible range. There have been used wave-lengths of some Fraunhofer lines and their most strong ghosts caused by rotational S(0), S(1) and O(2) and the vibrational Q(1) transitions.