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Present status of experiments on ion-induced nucleation originating from cosmic rays

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Ion-induced nucleation is considered as one of mechanisms which describe the effect of solar activity on the global climate. The scenario is that atmospheric ionization due to cosmic rays promotes the growing of aerosol particles and give increase the cloud amount. Recently some experiments which aim to verify the hypothesis are planned or in progress. In the presentation, we will review these experiments, describe their characteristics and discuss the future prospects.

Keywords: cosmic rays, solar activity, global climate, atmospheric ionization, nucleation, aerosol