## Eo-006

## Room: C510

## Global hybrid simulation of the solar wind interaction with the ionosphere of Venus

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We study the precipitation mechanisms of the solar wind ions into the Venus atmosphere using a two-dimensional global hybrid simulation model, with a particular emphasis on the dynamics of the precipitating ions around the ionopause. We discuss the incident angle distribution of the precipitating solar wind ions, and then a method to deduce the relative intensities of electric and magnetic field perturbations just above the ionopause from the energy dependence of the incident angle distribution.