

## Computer Experiments on Antenna Characteristics in Space Plasmas

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We have been studying antenna characteristics such as the input impedance in space plasmas by performing electromagnetic PIC simulations.

We particularly focus on antenna which is much shorter than the wave length of our interest, which has not been quantitatively analyzed in space plasma.

We are also interested in the influence of photoelectron emission from the antenna on its characteristics.

We will discuss some of the results obtained in the simulations.