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Author: Mr. Yifeng Chen China Aerospace Science and Technology Corporation (CASC), China, chenyifeng04@gmail.com

## STUDY OF SPACECRAFT SURFACE CHARGING WITH DIFFERENT SECONDARY ELECTRON EMISSION OF DIELECTRIC

## Abstract

A PIC(particle-in- cell) model is applied to investigate the surface potential with different secondary electron emission (SEE) of dielectric, and the surface potential is measured under 20-30 keV electron irradiation with the fluence of 1nA/cm2. The results indicate that the surface potential depends on the SEE of dielectric strongly. Furthmore, the surface potential is observed to be larger at higher projectile energy.