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ONE-DIMENSIONAL SIMULATION OF NANOPARTICLE DEPOSITION FROM PLASMAS ON SOLID SURFACE

In this paper, we report about computer simulation of nanoparticles deposition from the rarefied plasma onto the solid substrate. In our model, we used equations of cold hydrodynamics for ions, the equilibrium Boltzmann distribution for electrons, and PIC method for modelling of nanoparticles. It is shown that charged nanoparticles can change the sheath, so that deposition of nanoparticles on the substrate occurs non-uniformly in time.

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