Geophysical Research Abstracts, Vol. 8, 09018, 2006 SRef-ID: 1607-7962/gra/EGU06-A-09018 © European Geosciences Union 2006



Numerical simulations of dust - plasma interactions for non-trivial dust geometry

W. Miloch (1), H. Pecseli (1), J. Trulsen (2)

(1) Department of Physics, University of Oslo, Norway, (2) Institute of Theoretical Astrophysics, University of Oslo, Norway. (Contact Email: wojciecm@fys.uio.no)

The shapes of dust particles in space are very heterogeneous. It results in complex dust-plasma interactions. We study such interactions using the Particle-In-Cell numerical code. In the code we introduce non-trivially shaped dust particle, which is immersed in plasma environment. This work discusses the first results from numerical investigations for different particle's geometries.