11th World Congress on Computational Mechanics (WCCM XI)
5th European Conference on Computational Mechanics (ECCM V)
6th European Conference on Computational Fluid Dynamics (ECFD VI)
July 20 - 25, 2014, Barcelona, Spain

# A numerical study of slippery Jeffery orbits and reciprocal relations

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**Key Words:** *Jeffery orbits, Slip boundary condition, Cross coupling, Reciprocal relations.*

We will present a numerical study of Jeffery orbits with Navier slip boundary condition applied at anisotropic solid particle's surface in shear flow. The Fluid Particle Dynamics Method (developed by Tanaka and Araki) was employed. The effects of surface slip on Jeffery orbits were quantitatively demonstrated. Due to the presence of cross coupling between translational and rotational degrees of freedom, theoretical analysis was carried out for the reciprocal relations of Lorentz and Onsager.