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Silvia Jimenez Bolanos* (sjimenez@colgate.edu) and **Bogdan Vernescu**. *Navier Slip Condition for Viscous Fluids on a Rough Boundary.*

We study the effect of surface roughness on fluid flow over a solid surface. We are able to derive asymptotically an effective slip boundary condition (Navier slip condition) as a corrector to the no-slip condition on the surface. (Received September 05, 2014)