PROBABILITY DENSITY FUNCTION FOR PARTICLE ACCELERATIONS INTURBULENCE AND THE STRUCTURE OF VORTICES

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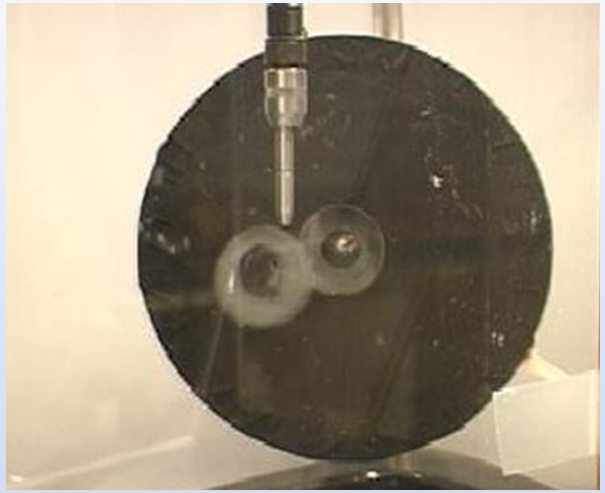
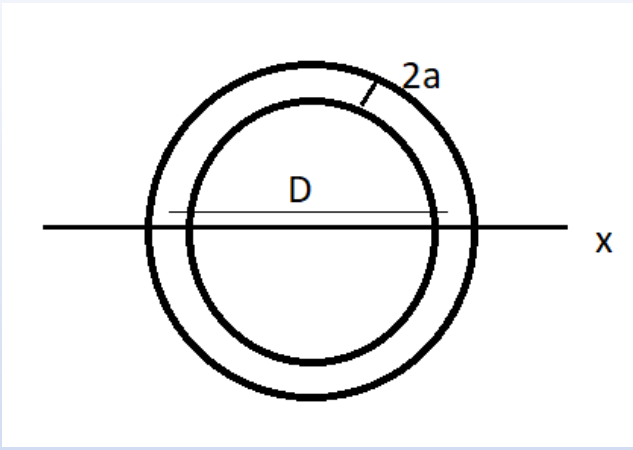
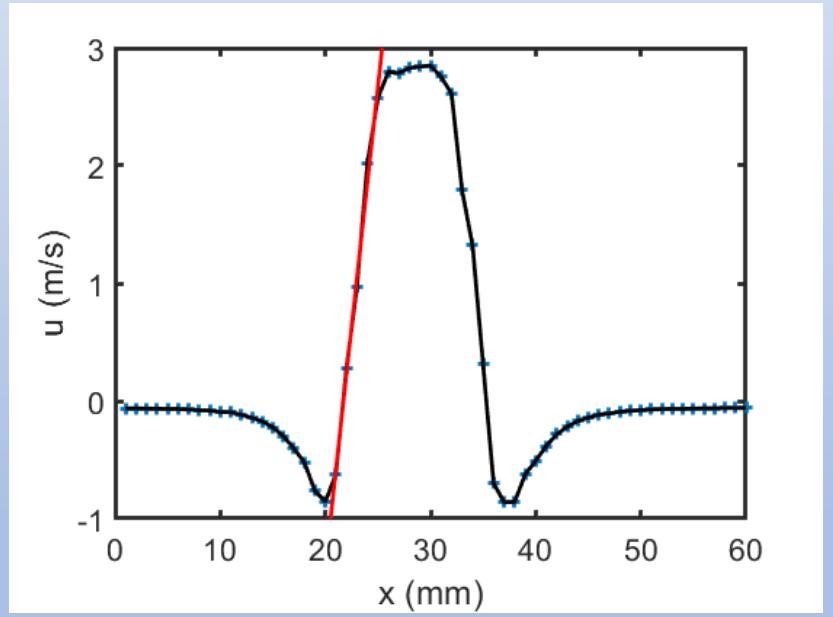
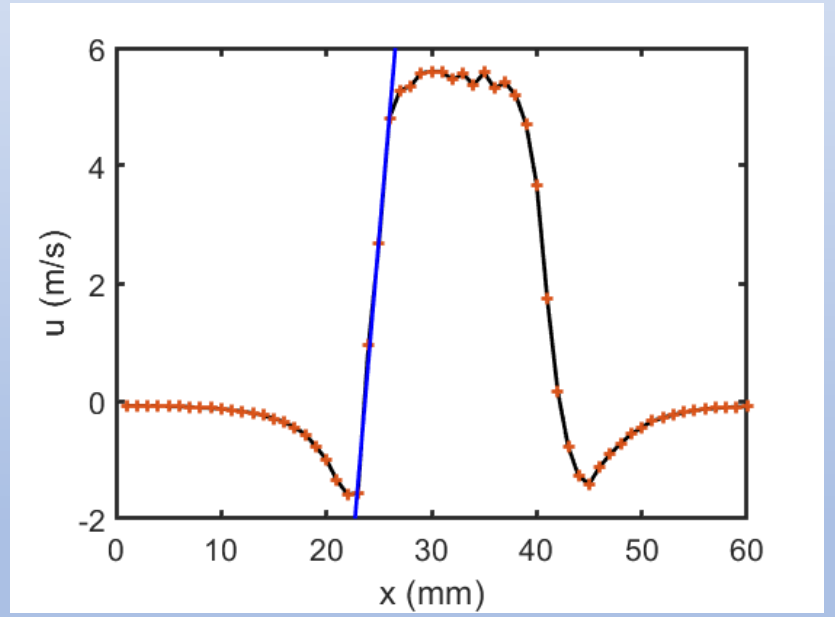
In a laminar flow, it is posible to observe accelerations of fluid particles as high as those observed in turbulent flows?

We investigate the velocity and the acceleration in annular vortices









a) 1300 m/s ^{2} for Re=800

a) 6500 m/s ^{2} for Re=2200