

DEPARTMENT OF MATHEMATICS

MATHEMATICS COLLOQUIUM (MCCUK)

@ *Central University of Kerala*

NAVIER-STOKES EQUATIONS – THE MILLION DOLLAR PROBLEM

Speaker: Dr. Manil T. Mohan, IIT Roorkee

When: March 10, 2022 @ 4.00 pm

Where: meet.google.com/aet-fqrb-dzg



Abstract:

The Navier-Stokes equations describe the motion of viscous fluids, which can be expressed mathematically in terms of conservation of momentum and conservation of mass for Newtonian fluids. A fundamental problem in analysis is to decide whether smooth, physically reasonable solutions exist for the three-dimensional Navier-Stokes equations (Navier-Stokes existence and uniqueness problem). In May 2000, the Clay Mathematics Institute announced this problem as one of its seven Millennium prize problems in Mathematics. The aim of this talk is to shed lights on this million-dollar open problem in Mathematics.

Dr. Manikandan Rangaswamy
Convener & Coordinator of MCCUK

Dr. K. A. Germina
HoD, Dept. of Mathematics

Dr. Gnanavel Soundararajan
Coordinator of MCCUK