

Vigyan Vidushi 2023

Mathematics



Rama Govindarajan is a Senior Professor and Dean Academic at the International Centre for Theoretical Sciences, TIFR Bengaluru specializing in the field of fluid dynamics. Her research interests relate to instability and transition to turbulence of shear flows, and the physics of interfacial flows.

She has received numerous awards and accolades for her work so far, including the prestigious Shanti Swarup Bhatnagar Award for the year 2007.

She was also awarded the Young Scientist Award of 1987 and the Outstanding Scientist Award of 1996 given by the National Aerospace Laboratories, Platinum Jubilee Prize by the Aerospace Engineering Department, Indian Institute of Science, 2017. She has also been an elected fellow of various prestigious academies and societies including the National Academy of Sciences, Allahabad (2004), the Indian Academy of Sciences, Bengaluru(2007), Mary Sears Fellow, Woods Hole Oceanographic Institution (2012), and the American Physical Society (2013).

The fluid dynamics of clouds

In this talk we will discuss how clouds form, and how some of them become rain clouds. We will also discuss how we can solve for the turbulent flow within a cloud and what we can learn from it. We will also see how turbulence and raindrop formation are intimately connected.

13 July 2023 at 4:00 pm (AG-66)