

## “A Journey Through Active Matter”

Speaker

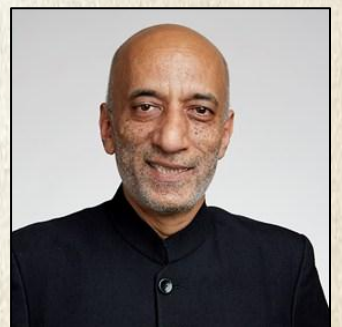
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Abstract

Materials whose individual constituents consume free energy and move autonomously as a result are known as Active Matter, for which the living state is both inspiration and prime example. My talk will summarise recent work with colleagues and students on the organising principles, phase transitions, and surprises in the statistics and dynamics of active systems.

*Brief Biodata:* Research interests: nonequilibrium, soft-matter and biological physics; on the IISc faculty since [1986](#), professor since [2002](#). Higher secondary [1973](#): The Modern School, New Delhi; BS, physics (high hons): University of Maryland ([1977](#)); PhD, physics,



University of Chicago ([1983](#)); postdoctoral fellow, University of Pennsylvania ([1983-86](#)); [2012](#) to [2016](#): Director of TIFR Centre for Interdisciplinary Sciences, Hyderabad; Homi Bhabha Chair Professor since [2017](#), Fellow of the Royal Society since [2016](#), J C Bose National Fellow since [2007](#), Fellow of the three Indian science academies and of the American Physical Society. Infosys Prize [2011](#), Shanti Swaroop Bhatnagar Prize [2000](#)



Bose

Colloquium



10<sup>th</sup> January 2020

04:00 pm

Fermion  
Hall