

INDIAN ASSOCIATION FOR THE CULTIVATION OF SCIENCE

2A & 2B, Raja S.C. Mullick Road, Jadavpur, Kolkata-700032, India

Seminar Notice

Org. by

School of Physical Sciences

Title:	Dark Matter Without New Particles?
Speaker:	Basudeb Dasgupta, Department of Theoretical Physics, TIFR, Mumbai
Date:	November 29, 2019 (Friday)
Time:	11:30 Hours
Venue:	Physics Seminar Room (C-406), 3rd Floor, Centenary Building, IACS
Abstract:	Discovering the microscopic identity of dark matter is, by most accounts, the most exciting frontier in all of particle physics. One may wonder, if we have exhausted all possibilities of accommodating dark matter, without adding new members to the particle zoo? We present a line of argument that suggests the answer is indeed 'dark matter must be a new particle' - with essentially one notable exception: primordial black holes. We then review the status of primordial black holes as a dark matter candidate, and provide novel constraints.

All are cordially invited to attend the seminar