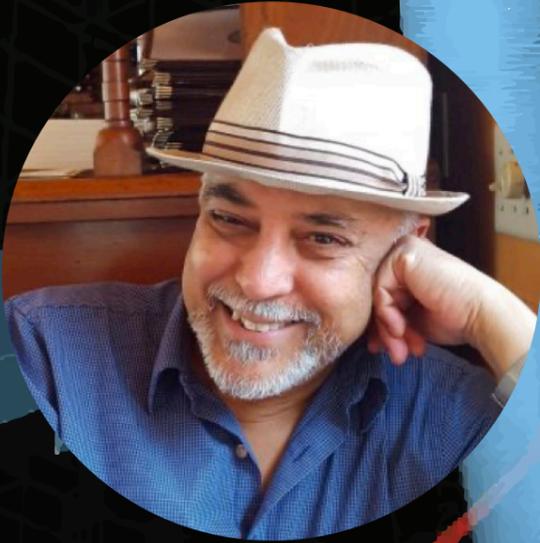




# KAAPI WITH KURIOSITY

## Beaming into Matter and Life with Particles and Light



We will take an adventure ride on beams of charged particles and light --- from their birth at a source and then eventually racing at the speed of light, gaining energy and packing information along the way and finally directing its energy and information into the heart of physical and living matter, probing the mysteries of the natural world around us. We will peek into the amazingly intricate subatomic structure and function of matter as elementary particles and complex living molecules down to the tiniest dimensions and shortest time-scales of nature. The journey will also take us to our remote past to an early and dark universe --- all made possible via beams of amazing particles and light! How do we create such probing rays of energy and information to 'strobe' the Tandava natyam? That is the story we will weave.

## Swapan Chattopadhyay

Swapan Chattopadhyay is a particle physicist, with contributions to innovative high energy particle colliders, exotic light sources and lasers based on free electrons, and "ultra-fast" sciences, for which he received the Berkeley Halbach prize. He is Director Emeritus, Cockcroft Institute (UK), where he held the Sir John Cockcroft Chair of Physics (UK), and Distinguished Scientist Emeritus, Fermi National Accelerator Laboratory (USA), with global affiliations at CERN (Geneva, Switzerland), University of California at Berkeley (USA) and Stanford University (USA). Currently he is spending autumn 2022 in Bangalore as Infosys Chair Visiting Professor at IISc and Adjunct Professor of TIFR (ICTS). Following B.Sc. and M.Sc. degrees from St Xavier's College (Calcutta University) and IIT Kharagpur respectively, he completed Ph.D. (Physics) from UC Berkeley and post-doctoral research at CERN. He is a Fellow of the APS, AAAS (US), IoP (UK), Royal Society for Arts (UK), and a corresponding Fellow of the Royal Society of Edinburgh (UK).

4 pm, Sunday, November 27th, 2022  
Jawaharlal Nehru Planetarium, Bengaluru

Registration Link: [https://bit.ly/kwk\\_nov2022](https://bit.ly/kwk_nov2022)

Contact Email ID: [outreach@icts.res.in](mailto:outreach@icts.res.in)



INTERNATIONAL  
CENTRE for  
THEORETICAL  
SCIENCES

TATA INSTITUTE OF FUNDAMENTAL RESEARCH