

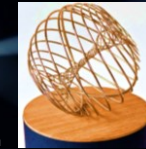


# QuanTalks

IISc Quantum Technology Initiative (IQTI) Seminar Series



## Title: Nobel Prize in Physics 2022 & Breakthrough Prize in Fundamental Physics 2022



**Abstract:** The Nobel prize in Physics 2022 was awarded for technological progress that confirmed predictions of quantum theory, while the Breakthrough Prize in Fundamental Physics 2022 was awarded for quantum theory features that are leading to technological progress. The foundational features behind these developments will be explained, and their implications pointed out.

**Speaker: Dr. Apoorva Patel**, Professor,  
Centre for High Energy Physics & Convener of IQTI,  
Indian Institute of Science, Bangalore, India 560012.  
Email: [adpatel@iisc.ac.in](mailto:adpatel@iisc.ac.in)



**Biography:** Apoorva D. Patel is a Professor at the Centre for High Energy Physics and convener of the Quantum Technology Initiative (IQTI) at IISc. He obtained his MSc in Physics (1980) from the Indian Institute of Technology Bombay, and his PhD in Physics (1984) from the California Institute of Technology, USA. He has extensively worked on lattice gauge theory investigations of Quantum Chromodynamics. He is also notable for his work on quantum algorithms, and the application of information theory concepts to understand the structure of genetic languages. He has been exposed to the subject of quantum computation since his graduate student days at Caltech, and he has been teaching the subject at IISc for more than 25 years.

### Date & Time

Monday, 28th November 2022,  
4 PM (IST)

### Meeting Link

[Click here to join the Webinar](#)

### Venue

Physics Department  
Auditorium, IISc

[iqti.iisc.ac.in](http://iqti.iisc.ac.in)

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