



Department of Physics
Panjab University, Chandigarh



Physics Colloquium

Look Beyond the God Particle : Decoding the Invisible Universe using AI on a Chip



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VENUE: B. M. Anand Auditorium, Department of Physics
Panjab University, Sector 14, Chandigarh

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Abstract

It has been more than a decade since the discovery of the Higgs Boson, aka the God Particle. I will mention evidence for physics beyond the Higgs Boson, and for the existence of Dark Matter. This is the new frontier in fundamental physics. Artificial Intelligence is making rapid inroads in many aspects of our lives. I will discuss a different kind of AI and show how such an AI can be used to search for Dark Matter at the LHC. Also, by embedding such AI directly onto silicon chips, it can execute much faster than computers. I will also discuss a growing school of thought that AI needs to be explainable in order to be reliable.

"Ashutosh ...conducts breakthrough research related to W boson and The Higgs boson, and searches for new particles and forces. Hope he wins the Nobel Prize one day ..."

S. Mashelkar

Dr. R. A. Mashelkar
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