



## SAMVAAD

An International Lecture Series hosted by

**Sree Chitra Tirunal Institute for Medical Sciences and Technology, Trivandrum**

### **Unravelling Secrets of Nature: From Rutherford to LHC**

**Lecture by Dr. Rohini M Godbole**



#### Abstract

In this talk I want to trace the journey of physicists towards gaining an understanding of 'what lies within', beginning from Rutherford's time to the era of the Large Hadron Collider (LHC) at CERN in Geneva. Beginning from Rutherford's classic experiment which indicated the presence of a nucleus inside an atom, today science has reached a stage where we understand what lies at the heart of the matter. The discovery of the Higgs boson ten years ago at the large Hadron Collider was the latest and perhaps the last step in arriving at this understanding. Further, this 'inward bound journey' has implications for different puzzles that the Universe and the Cosmos have set for us humans and which we are yet not able to solve. Thus the continuing journey towards unravelling the secrets of nature, now has to proceed on the twin paths of experiments on the earth and in the sky!

**Date: 21<sup>st</sup> December 2022**

**Time: 5.30 pm to 6.30 pm**

**Venue: Online**

**YouTube link: <https://youtu.be/8u7bGs3n8qo>**



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### **Program Schedule**

#### **Introduction to the speaker**

**Dr.Easwer HV, Head, Dept of Neuro-surgery, SCTIMST**

**5:30 PM – 5:35 PM**

#### **Lecture by Dr.Rohini M Godbole**

**5:35 PM – 6:10 PM**

#### **Comments and QA session moderated by**

**Prof. Easwer HV Head, Dept of Neuro-surgery, SCTIMST**

**6:10 PM – 6:25 PM**

#### **Vote of thanks**

**Dr. Anoop Kumar Thekkuveetil, BMT Wing, SCTIMST**

**6:25 PM – 6:30 PM**

YouTube link: <https://youtu.be/8u7bGs3n8qo>

**ALL ARE CORDIALLY WELCOME**



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### **Short Biography**

Prof. Rohini Godbole is Honorary Professor at the Centre for High Energy Physics at the IISc, Bengaluru. She has her under-graduate degree in Physics, Mathematics and Statistics with first rank from Sri Parshurambhau College, Pune and her Masters in Physics from IIT, Bombay. She has her PhD in Physics from S.U.N.Y. at Stony Brook in U.S.A in 1979. She also has D.Litt. (Honoris Causa) from the S.N.D.T Women's University and Tilak Maharashtra Vidyapeeth, as well as D.Sc. from IIT (Kanpur) and VTU, Karnataka.

The Govt of India conferred the Padma Sri on Prof. Godbole in Science and Engineering-Nuclear in 2019. She was awarded the Ordre National du Merite, Civilian Honour of France, January, 2021.

She has more than 300 citable publications which have been highly cited. She has served and continues to serve on several high level positions of science and technology governance nationally and internationally. She enjoys lecturing to young students on particle physics and encouraging women in science.