

Physics Colloquium

Fundamental Successes and Challenges of the Contemporary Physics

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Abstract: Even though the contemporary physics and, in particular, quantum theories and the general relativity, have had great success in their theoretical and applied aspects over the past several decades, there remain important dilemmas both in the quantum theory of fields and in cosmology that are yet to be resolved. Some of these unresolved issues have received special attention from the physics elites, who have aimed at revising the prevailing theories in recent years. These courses of scientific endeavor have led to valuable collaborations among physicists, mathematicians and philosophers of physics that will be addressed in this talk.



Mehdi Golshani is an emeritus Professor of Physics at Sharif University of Technology (SUT) and a founding fellow of Institute for Research in Fundamental Sciences (IPM), Tehran. He received his Ph.D. in particle physics at the University of California, Berkeley, in 1969. He then returned to Iran and started his work as a faculty member at the Department of Physics of SUT and was promoted to a full professor position in 1985. Prof. Golshani has been active in numerous national and international scientific and cultural arenas. His research interests include foundational physics, philosophy of physics, and science and religion.

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