Physics Colloquium

Tuesday, March 20th, at 3:30 pm in SC 234

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Multi-bosons as a tool for new physics searches

The recent discovery of Higgs boson marks a major milestone in particle physics. With this the Standard Model is complete and internally consistent. However, questions like the validity of the theory up to high scales and role of gravity are still unanswered. Various extensions of the Standard Model addressing these questions, like theories with extra dimensions or a composite Higgs sector, predict heavy resonances at the TeV scale, which couple predominantly to the Higgs and electroweak gauge bosons. In this talk are presented searches for heavy di-boson resonances and alternative approach for hunt for a new physics, employing searches for anomalous gauge couplings.

Meet & Greet graduate students, Refreshments
at 3:00 pm in SC 103