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CENTER FOR THEORETICAL PHYSICS



# Sommerfeld Theory Colloquium

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CERN, Geneva, Switzerland

## Testing Strings at the LHC?

A theory with such a mathematical beauty cannot be wrong: this was one of the main arguments in favor of string theory, which unifies all known physical theories of fundamental interactions in a single coherent description of the universe. But no one has ever observed strings, not even indirectly, neither the space of extra dimensions where they live. However, there are good reasons to believe that the "hidden" dimensions of string theory may be much larger than what we thought in the past and they become within experimental reach in the near future, together with the strings themselves. In my talk, I will give an elementary introduction of this framework and describe the main experimental predictions.

Wednesday, 3<sup>rd</sup> November 10, 10:30 h, Room 348 / 349, Theresienstr. 37 / III

Prof. V. Mukhanov