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## Laura Covi, Theory and Observations in the Early Universe" (6-9 Oct)

Dr Laura Covi is professor at the Institute for Theoretical Physics, University of Göttingen. Covi's main research fields are baryogenesis via leptogenesis, inflation model building and testing, supersymmetric Dark Matter, extra dimensions and orbifold GUTS. Covi holds a PhD from the International School for Advanced Studies (SISSA, Trieste, Italy).

### ABSTRACT

The lectures will review the present status of our knowledge of the Universe and its evolution history, with special emphasis to the recent observational results from the Planck satellite and Dark Matter searches. Moreover they will give a flavour of the theoretical models which have been proposed to account for the dark energy density components. e.g. Dark Energy and Dark Matter, or for the inflationary epoch, and discuss the possible ways to test them in the near future.

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