



LHC ski 2016

A first discussion of 13 TeV results
April 10-15, 2016, Obergurgl University Center, Tirol, Austria

Scientific Organizers:

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Much is at stake when the LHC will explore the Terascale of particle physics with an increased center-of-mass energy of 13 TeV at high luminosity. The absence of much anticipated new physics in the 7 and 8 TeV data puts severe pressure on what are believed to be our best solutions to the most pressing questions in particle physics: What is the origin of the 16-decade hierarchy between the Planck and Electroweak scale and what is the particle nature of Dark Matter? Is there a natural solution to the hierarchy problem or must we consider embracing the idea that our Universe is just one out of a landscape of

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possibilities? Finally, will the LHC at higher energies be able to produce Dark Matter in the laboratory and shed light on what 85% of the Universe's mass is made of? The aim of the workshop is to bring together key experimentalists and leading particle theorists to "take stock", discuss the implications of the new data and to devise strategies on how to move forward with the pressing questions mentioned above. The meeting will take place at the Obergurgl University Center, in the ski-resort town of Obergurgl, located in the upper Ötztal Valley in Tirol, Austria.

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