



EINLADUNG

zum

VERA - SEMINAR

von

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der Wissenschaften in Wien und
Technische Universität Wien

LHC at CERN: Physics and Experiments

At the time of the Seminar we expect to have seen first collisions produced by the 'Large Hadron Collider' (LHC) at CERN. This machine will be the world's most powerful accelerator, designed to become a 'discovery' machine. We will describe some of major research plans: the search for the HIGGS, Supersymmetry and its connection to "Dark Matter", studies of the 'Primordial' Matter, the Quark-Gluon Plasma, and Matter-Antimatter asymmetries. We will highlight the experimental strategies and comment on the Austrian contributions to this program. The contributions of non-acclerator-based experimentation to these physics topics will also be discussed.

Donnerstag, 17. Dezember 2009, 11 Uhr c.t.

**1090 Wien, Währinger Str. 17, "Kavalierstrakt",
1. Stock, Victor-Franz-Hess-Hörsaal**