

UCLA Department of Physics & Astronomy

COLLOQUIUM

Thursday, May 1st at 4 p.m.

1-434 PAB

Discoveries at Hadron Colliders - On the Occasion of the 70th Anniversary of CERN and of other round dates

Thomas Müller
(Karlsruher Institut für Technologie)



The foundation of CERN in 1954, planned as a project to promote peaceful open research in war- torn Europe, created the pre-requisites for obtaining our modern picture of nature and its fundamental processes. Many important discoveries were made in the ensuing decades - at CERN and in other laboratories world wide – but they only led to collect more elements of the puzzle of particle physics. To finally solve this puzzle, research at energy scales beyond 100 GeV, or equivalently at distance scales of less than 10-18m was necessary. This could only be achieved with utilizing a novel concept of particle accelerator: the hadron collider which was introduced at CERN about 50 years ago. A new generation of particle detectors was introduced to extract information of the collision events. This colloquium highlights three fundamental discoveries made at hadron colliders in the last forty years, and one which led to the three. Colleagues from UCLA were part of all of them!

Host: Seth Putterman

Refreshments at 3:30 p.m. on the PAB Patio. Undergraduates Welcome!