

The High-Energy Physics Kit - HEPKIT2015

Monday 05 October 2015 - Thursday 08 October 2015

Karlsruhe Institute of Technology (KIT)

Book of Abstracts

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SM Higgs Boson Production and Decay

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Precise predictions for Higgs production in association with top quarks

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Welcome

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Ratio of signal strengths $\gamma\gamma/ZZ$ and the probing of the TeV scale

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Studying the Z boson resonance not with weak loops, but with the SMATASY/ZFITTER-kit

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Hadronic contributions to electroweak observables from lattice QCD

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Higgs searches in CMS

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Full NLO predictions for the decay of CP-odd Higgs bosons into stops in the NMSSM

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Precision Calculations of Top- and Bottom-Yukawa Couplings within the Standard Model and Supersymmetry

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Discriminating between SUSY and Non-SUSY Higgs Sectors through the Ratio $H \rightarrow bb/H \rightarrow \tau\tau$ with a 125 GeV Higgs boson

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