

Spåtind 2016 - Nordic Conference on Particle Physics

Saturday 02 January 2016 - Thursday 07 January 2016

Skeikampen, Norway

Book of Abstracts

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Contributed talks / 38

An introduction to GAMBIT

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Bus from Skeikampen to Oslo (8:00)

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Buses from Oslo to Skeikampen (time TBC, about 2pm)

Contributed talks / 22

Characterisation, plans and prospects of positronium formation in the AEGIS experiment

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Conference dinner

Invited talks / 46

Dark Matter Detection lecture 2

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Dark matter detection 1

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Dark matter seen from kimberlite pipes vulcanoes

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Discovery strategies for new resonant and non-resonant phenomena with hadronic jets at the ATLAS detector

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ESS / n - \bar{n} Oscillations

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ESSnuSB: an opportunity to measure the higher leptonic CP violation signal at the second oscillation maximum

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Early atmospheric muon rejection with PINGU - the low energy extension to IceCube

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Invited talks / 42

Higgs precision measurements lecture 1

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Higgs Precision Measurements lecture 2

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Jet Fragmentation Transverse Momentum Distributions In Proton-Lead Collisions Measured By The ALICE Experiment At LHC

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Invited talks / 57

LHC discoveries and particle physics concepts for education

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Measuring Higgs properties in proton-proton collisions with the CMS experiment

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Contributed talks / 26

Measuring pancakes in space

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Model Building in Grand Unified Theories

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Observational signatures of Higgs inflation

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Particle Physics Phenomenology lecture 1

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Physics concepts and education related to LHC-physics seen by a high school teacher and masterclass author

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Invited talks / 45

Physics of the Big Bang lecture 2

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Physics of the Big Bang, lecture 3

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Physics of the Big bang lecture 1

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Plasmon mass in classical Yang-Mills theory

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Invited talks / 51

Proton therapy

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Invited talks / 44

QCD / heavy ions 1

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QCD, heavy ions lecture 2

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Contributed talks / 31

Radiatively Induced Fermi Scale in Grand Unified Theories

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Contributed talks / 15

Search for narrow resonances decaying to dijets in proton-proton collisions with the CMS detector at $\sqrt{s} = 13$ TeV

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Contributed talks / 28

Search for new phenomena in the dilepton final state using proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector

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Search for new resonances in events with one lepton and missing transverse momentum in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector

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Invited talks / 55

Searches for BSM physics lecture 2

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Searches for Physics Beyond the Standard Model in Monojet Signatures with ATLAS

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Contributed talks / 30

Self-interacting dark matter and cosmology of a light scalar mediator

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Study of antiproton annihilation in silicon with a hybrid pixel detector using the TimePix3 readout

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Supersymmetry Searches with the ATLAS detector: Electroweak gauginos, sleptons and Dark Matter (aka SUSY around the corner)

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Trials factors and the significance of the diphoton mass peaks at 750 GeV seen by ATLAS and CMS in the 2015 data

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Both ATLAS and CMS observed small deviations from the background expectation at 750 GeV in the diphoton mass spectrum of the proton-proton collision data collected during 2015. The calculation of the trials factors that account for the look - elsewhere effect will be discussed as will a “hallway-statistics” combination of the results.

Contributed talks / 36

Wavelets

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Welcome and reception

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Yang-Mills condensates in Cosmology

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