

Scalars 2023

An opportunity to discuss various aspects of scalar particles.

13-16 September 2023

Warsaw (Ochota Campus)

scalars2023.fuw.edu.pl

SM Higgs boson: theory and experiment
Extensions of the minimal scalar sector of the Standard Model, e.g. multi Higgs-doublet models, doublet-singlet models, the Georgi-Machacek model
Experimental constraints on possible scalar sectors
Effective field theory in Higgs physics
Scalars in cosmology: dark matter, baryogenesis, phase transitions, inflatons, axions, relaxions, etc.

Scale-invariant scalar sectors,
Composite Higgs bosons
Elementary scalars within extra dimensions: gauge-Higgs unification, stabilization of extra dimensions, radions, bulk scalars, etc.
Fundamental scalars within supersymmetric extensions of the SM
Future experimental searches for scalars, e.g. at LHC, FCC or ILC.

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