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SCALARS 2015
03-07 December 2015
Warsaw, Poland

The meeting is organized jointly by the Faculty of Physics at the University of Warsaw and the Polish Physical Society.

Special Event: General Relativity meets QFT
David Gross (Duke University of California Santa Barbara)
"The Enduring Legacy of Albert Einstein"

The conference "Scalars 2015" is a continuation of "Scalars 2011" and "Scalars 2013". This year event, as the previous ones aims at being an opportunity to discuss various aspects of physics of scalar particles. In particular, we plan to cover the following issues:

- Standard Model Higgs boson
- Extensions of the minimal scalar sector of the Standard Model (SM)
- Composite Higgs bosons
- Effective field theory approach to Higgs physics
- Fundamental scales in supersymmetric extensions of the SM
- New scales implied by extensions of the SM gauge group
- Scalars within models of neutrino masses
- Elementary scalars within extra dimensions
- Higgs bosons on the lattice
- Scalars in cosmology
- Experimental search for scalar particles

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Venue: University of Warsaw
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The conference "Scalars 2015" will be held in Warsaw in December 2015. The meeting is organized jointly by the Faculty of Physics at the University of Warsaw and the Polish Physical Society.

The conference will take place at the OCHOTA campus of the University of Warsaw. It will start on December 4 (Friday morning) and ends on December 7 (Monday evening). On December 3, the registration (5.30-7 pm) and the welcome reception (7-10 pm) will take place.

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1. Standard Model Higgs boson
2. Extensions of the minimal scalar sector of the Standard Model(SM), e.g. multi-Higgs Models
3. Composite Higgs bosons
4. Effective field theory approach to Higgs physics

5. Fundamental scalars in supersymmetric extensions of the SM
6. New scalars implied by extensions of the SM gauge group, e.g. $SU(2)_L \times SU(2)_R \times U(1)$
7. Scalars within models of neutrino masses
8. Elementary scalars within extra dimensions: gauge-Higgs unification, stabilization of extra dimensions, radions, bulk scalars, etc...
9. Higgs bosons on the lattice
10. Scalars in cosmology (dark matter, baryogenesis, inflatons, axions, quintessence)
11. Experimental search for scalar particles

- LHC
- Tevatron
- low energy colliders
- future colliders