Physics Area @ SISSA

SISSA Welcome Day, November 23th, 2011

The Area of Physics

People: about 200, 60% PhD students, 20% post-docs, 20% staff, 30% from abroad

Training: PhD courses until Spring, and selection of your research line and supervisor

3+1 years for carrying out original research, within small or large international collaborations, to grow as a junior researcher in a world-wide context, get a prestigious Post-Doc position

Research and Training

Astrophysics: High Energy and Relativistic Astrophysics, Stars and Galaxies, Large Scale Structure in Cosmology, Early Universe, Gravitation Theory. PhD courses in Astrophysics and Astroparticle

Condensed Matter: Computer Modeling of Molecular, Condensed Matter and Nano-Structured Systems, Physics of Strongly Correlated Quantum Systems, Lattice Models, Quantum Computation, Cold Atoms, Complex and Disordered Quantum Systems, Associative Memories. PhD courses in Condensed Matters and Statistical Physics

High Energy: Physics Beyond the Standard Model of Particle Physics (LHC, flavour, neutrinos), String Theory, Statistical Field Theory, Non-Equilibrium Statistical Physics. PhD courses in Astroparticle, High Energy and Statistical Physics

Statistical and Biological Physics: Dense

Phases of Biopolymers, Struture Function Relationship in Enzymes, Rare Events in Biological Systems, Molecular Mechanisms of Diseases and Drugs, Enzymatic and Biomimetic Catalysis, Small Ribonucleic Acid, PLUMED

Web Pages

Astroparticle: sissa.it/app Astrophysics: sissa.it/ap Condensed Matter: sissa.it/cm High Enegy: sissa.it/he Statistical Physics: sissa.it/statistical Statistical and Biological Physics: sissa.it/sbp