WIN2019 The 27th International Workshop on Weak Interactions and Neutrinos.

Sunday, 2 June 2019 - Saturday, 8 June 2019

Bari

Scientific Programme

The Scientific Program will consist on both plenary and working group sessions. The plenary sessions will include overview and highlight talks, as well as a session focused on worldwide future plans.

The working group program will be organized by the session conveners (one experimentalist and one theorist) and contributing talks will be given during the working group parallel sessions. If you are interested in giving a talk, please contact directly the session conveners. A general poster session will be organized as well.

Topics to be covered in the four working groups include:

Neutrino Physics

Theories of neutrino masses and mixing; long-baseline oscillation experiments; short-baseline oscillation experiments; atmospheric neutrinos; reactor neutrinos; solar neutrinos; searches for sterile neutrinos; neutrino-nucleus cross sections; direct neutrino mass measurements; neutrino-less double beta decay.

Electroweak interactions and Higgs physics

Experimental results, searches, and bounds; precision electroweak studies; Higgs physics; supersymmetry and alternative theories studies and experimental signatures; analyses of future collider prospects.

Flavor and Precision Physics

Theories of flavor and CP violation; theoretical tools for precision physics; lepton flavor violation; B-factories; electric dipole moments; (g-2); other precision experiments at low energies; rare decays; low-energy CP violation; proton decay; neutron-antineutron oscillation.

Astroparticle Physics and Cosmology

Supernova neutrinos; neutrinos in cosmology; ultra-high energy cosmic neutrinos; direct and indirect searches for dark matter; new dark matter candidates; baryogenesis and leptogenesis; the cosmic microwave background; cosmological observations; dark energy; inflation.