

Corfu Summer Institute on Elementary Particle Physics and Gravity 2019

URL Address:
<http://physics.ntua.gr/corfu2019>

Workshop on Connecting Insights in Fundamental Physics: Standard Model and Beyond 31 August - 11 September 2019

Workshop Topics: Standard Model of Particle Physics (Electroweak, Higgs and QCD), The origin of Flavour (study of flavour, CP, B and L violating Higgs and top observables and perspectives at high energy colliders), Neutrino Physics, Beyond the SM (BSM) (theory, codes and experimental searches), Astro-particle Physics and Cosmology (dark matter, dark energy, baryogenesis, axions).

Organizing Committee: G. Barenboim, H. Dreiner, G. Perez, M. Raidal, M.N. Rebelo, I. Tamborra, Z. Trocsanyi, A. Weiler.

Advisory Committee: F. del Aguila, J.A. Aguilar Saavedra, I. Antoniadis, R. Barbieri, M. B. Gavela, D. Ghilencea, N. Glover, W. Hollik, J. Kalinowski, G. Koutsoumbas, C. Papadopoulos, R. Pittau, M. N. Rebelo, A. Ringwald, G. Rodrigo, S. Sarkar, E. Tsesmelis, D. Varouchas, A. Weiler, G. Zanderighi

Humboldt Kolleg Frontiers in Physics: From the Electroweak to the Planck Scales 15 - 19 September 2019

Description: Attempts in understanding of the quantum nature of fundamental interactions at very high-energy energy scales and their implications for Particle Physics and Cosmology by bringing together world experts in String Theory, AdS/CFT correspondence, Beyond the Standard Model Physics, Non-commutative geometry and Matrix Models.

Organizing Committee: C. Bachas, E. Dudas, V. Kazakov, D. Lust, P. Vitale, G. Zoupanos

Outreach Activities: I. Dalianis, G. Koutsoumbas, N. Tracas

Local Organizing Committee: K.N. Anagnostopoulos, P. Anastopoulos, A. Chatzistavrakidis, I. Dalianis, K. Ntrekis, D. Ghilencea, D. Giataganas, F. Farakos, I. Florakis, A. Kehagias, J. Kalinowski, S. Maltezos, G. Manolakos, G. Patellis, E. Saridakis, D. Skliros, J. Tekel, N. Tracas, D. Varouchas, G. Zoupanos

Workshop on Recent Developments in Strings and Gravity

10- 16 September 2019

Topics: Supersymmetric Field Theories, Supergravity, Superstrings, AdS/CFT Correspondence and applications, Integrability in Gauge and String Theories, Higher Spins, Generalized Geometry, Black Holes, Gravitational Waves, CFT and applications, String Landscape and Swampland, String Cosmology

Organizing Committee: A. Chatzistavrakidis, A. Kehagias, D. Lust, H. Partouche, M. Petropoulos, C. Angelantonj

Workshop on Quantum Geometry, Field theory and Gravity 18 - 25 September 2019

Topics: Noncommutative field theory and gravity. Relationships between noncommutative geometry and integrable systems, supersymmetric gauge theories, and particle phenomenology. Noncommutative geometry in string theory. Formal aspects of quantization, including higher bracket structures and membrane models. Matrix models. Tensor models and group field theory. Enumerative and arithmetic aspects of gauge theories, black holes, and string theory.

Organizing Committee: K. Anagnostopoulos, P. Aschieri, H. Kawai, J. Nishimura, F. Lizzi, D. O'Connor, H. Steinacker, R. Szabo, S. Watamura, G. Zoupanos