Nesin Mathematics Village Summer 2018

Modern Mathematics Methods in Physics
Summer School June 18-29, 2018
Nesin Mathematics Village — Şirince, Izmir, Turkey

Diffeology
Patrick Iglesias-Zemmour

Diffeological spaces, Homotopy, Fiber Bundles, Coverings, Monodromy Theorem, Moment Map, Para-Symplectic Quotients, Geometric Quantization, symplectic Diffeology, Integration of Closed Forms and Paths Spaces, Virasoro Group and Souriau's Cocycle, Differential Calculus, De Rham Complex, Homotopic Invariance, Chain-Homotopy Operator, Stokes Formula.

Categories & Toposes
Urs Schreiber

Local Field Theory, Differentially Cohesive Infinity-Topos, Categories, Limits/Colimits, Adjoint Functors and Kan Extension, Categories of Pre-Sheaves, Simplicial Sets and Simplicial Pre-Sheaves, Simplicial Sheaves on The Site of Smooth Manifolds and Formal Manifolds... and Supermanifolds, Higher Pre-Quantization.

Non-Commutative Geometry
Murad Özaydın

C*-Algebras, Gelfand-Naimark Duality, Vector Bundles, K-Theory, Serre-Swan Theorem, Quantum Tori, Noncommutative Quotients, Foliations, von Neumann Algebras, Morita Equivalence, Hopf Algebras and Quantum Groups, Affine, Projective and Derived Noncommutative Algebraic Geometry, Noncommutative Stone-Weierstrass Theorem, Cyclic Cohomology, Connes-Chern Character: Topological Index = Analytic Index, Spectral Triples.

We will be able to partially cover accomodation for approximately 30 participants.
If you would want to apply for accomodation, the deadline for registration is the 30 of March 2018.
Registration: https://matematikkoyu.org/etkinlik-detay.php?egitimkod=203
Contact: Aslı Can Korkmaz (+090 533 962 11 43) aslicankorkmaz@nesinvakfi.org

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TÜRK MATEMATİK DERNEĞİ

TÜBİTAK