

**COST Training School *Quantum Spacetime and Physics Models***  
**Corfu2017, 16-23 September 2017**

**Friday 16/9 2017**

Arrival Day/Registration

**Sunday 17/9 2017**

8:45	Introduction.	
9:00	Lizzi	Noncommutative Geometry and Particle Physics 1
10:00	Castellani	Noncommutative Geometry and Gravity 1
11:00	Coffe Break	
11:30	Kawai	Matrix Models and Quantum Spacetime 1
12:30	Young Seminars:	
	Chacon Ramirez	Gravity in the theory of twistors and strings
	De Filippi	Noncommutative Wilson lines in higher-spin theory and correlation functions of conserved currents for free conformal fields
13:00	Lunch	
16:00	Young Seminars:	
	Faridi	Scattering in Reissner-Nordstrom black hole spacetime
	Hatefi	On D-brane Effective actions of type II SuperString theory and their all order $\alpha'$ corrections
	De Cesare	Cosmological implications of the group field theory approach to quantum gravity
	Kovacik	Magnetic monopoles in noncommutative quantum mechanics
17:00	Exercise Session	Lizzi/Castellani
18:30	Coffee Break	
19:00	Rivasseau	Holographic Tensors 1
20:00	Closing	
20:30	Dinner	

**Monday 18/9 2017**

9:00	Castellani	Noncommutative Geometry and Gravity 2
10:00	Kawai	Matrix Models and Quantum Spacetime 2
11:00	Coffe Break	
11:30	Rivasseau	Holographic Tensors 2
12:30	Young Seminars:	
	Deser	Pre-NQ manifolds and derived brackets in generalized geometry and double field theory
	Jizba	On Statistical Origin of Special and Doubly Special Relativity
13:00	Lunch	
16:00	Young Seminars:	
	Hewitt	Fuzzy spheres and quantum information in gravitational collapse
	Sperling	Fuzzy 4-sphere, matrix models and higher-spin
	Tekel	Matrix Models of Fuzzy Field Theories
	Mele	Quantum Metric and Entanglement on Spin Networks
17:00	Exercise Session	Kawai/Rivasseau
18:30	Coffee Break	
19:00	Lizzi	Noncommutative Geometry and Particle Physics 2
20:00	Closing	
20:30	Dinner	

**Tuesday 19/9 2017**

9:00	Kawai	Matrix Models and Quantum Spacetime 3
10:00	Rivasseau	Holographic Tensors 3
11:00	Coffe Break	
11:30	Castellani	Noncommutative Geometry and Gravity 3
12:30	Young Seminars:	
	Toriumi	Polchinski's exact renormalisation group for tensorial theories
	Perez Sanchez	The full Schwinger-Dyson tower for random tensor models
13:00	Lunch	
16:00	Lizzi	Noncommutative Geometry and Particle Physics 3
17:00	Exercise Session	Lizzi/Castellani
18:30	Coffee Break	
19:00	Young Seminars:	
	Yang	A possibility on protection of Higgs mass by the extended Lorentz transformation in noncommutative geometry
	Carotenuto	Flat connections on Jordan modules and standard model
	Karimi Khozani	TBA
	Koutroulis	Renormalization of the Abelian-Higgs Model in the $R_\xi$ and Unitary gauges and the physicality of its scalar potential
20:00	Closing	
20:30	Dinner	

**Wednesday 20/9 2017**

9:00	Szabo	Nonassociativity and Physics 1
10:00	Castellani	Noncommutative Geometry and Gravity 4
11:00	Coffe Break	
11:30	Lizzi	Noncommutative Geometry and Particle Physics 4
12:30	Kawai	Matrix Models and Quantum Spacetime 4
13:30	Lunch	
	Free Afternoon	

### Thursday 21/9 2017

9:00	Rivasseau	Holographic Tensors 4
10:00	Szabo	Nonassociativity and Physics 2
11:00	Coffe Break	
11:30	Hull	Double Field Theory 1
12:30	Young Seminars:	
	Fritz	Noncommutative Spherically Symmetric Spacetimes at Semiclassical Order
	Gutierrez-Sagredo	Curved momentum spaces from quantum groups with cosmological constant
	Kuntz	What is modified gravity and how to differentiate it from particle dark matter?
	Lovrekovic	Three dimensional higher spin holography
13:30	Lunch	
16:00	Young Seminars:	
	Strajn	Snyder-type spacetimes, twisted Poincare algebra and addition of momenta
	Seridi	Paraquantum strings and spacetime noncommutativity
	Relancio	Does a deformation of special relativity imply energy dependent photon time delays?
	Platania	An Emergent Universe model from Quantum Einstein-Hilbert gravity
16:00	Lizzi	Noncommutative Geometry and Particle Physics 3
17:00	Exercise Session	Kawai/Rivasseau
18:30	Coffee Break	
19:00	Szabo	Nonassociativity and Physics 3
20:00	Closing	
20:30	Dinner	

**Friday 22/9 2017**

9:00	Van Suijlekom	Beyond the spectral Standard Model: Pati-Salam unification
10:00	Szabo	Nonassociativity and Physics 4
11:00	Coffe Break	
11:30	Hull	Double Field Theory 2
12:30	Young Seminars: Parkhomenko	Generalized Kahler Geometry and current algebras in $SU(2) \times U(1)$ N=2 superconformal WZW model.
	Osten	Spacetimes from integrable deformations
	Manolakos	TBA
13:15	Lunch	
16:00	Chamseddine	Mimetic matter from volume quantization
17:00	Exercise Session	Szabo
18:30	Coffee Break	
19:00	20:00	Closing
	20:30	Dinner