

Quantum Field Theory II - 2020 - Seminar Schedule

Times	Wednesday 16/12	Thursday 17/12	Friday 18/12	Saturday 19/12
10	<i>Grand Unified Theories</i> Nickolas Alves	<i>Meissner Effect and the Anderson-Higgs Mechanism in Superconductivity</i> Chiara Le Roux	<i>Consequences of Anomalies: Anomalies and Chiral Gauge Theory, Matching, etc.</i> João Ferri	<i>From the Parton Model to QCD: Parton Evolution, Scaling Violation</i> Carlos Yamaguchi
11	<i>Renormalization Group Equations and Critical Exponents</i> André Rodrigues	<i>The Kosterlitz-Thouless Phase Transition</i> Thomas Bastos	<i>The Coleman-Weinberg Potential and Radiative Spontaneous Symmetry Breaking</i> Rafael Ribeiro	<i>BFKL Evolution</i> Fabio Canedo
Lunch				
14	<i>Supersymmetric Field Theories</i> Ana Foguel	<i>The Quantum Hall Effect(s) and Topology</i> Marcelo Barbosa	<i>Topcolor: A Nambu–Jona-Lasinio Realization of Electroweak Symmetry Breaking</i> Vitor Pereira	<i>Effective Field Theory of the Strong Interactions at Low Energies</i> Gustavo Sakoda
15	<i>Gravity as an Effective Quantum Field Theory</i> Ivan Oliveira	<i>Majorana Fermions in Condensed Matter</i> Wesley dos Santos	<i>False Vacuum Decay and the Standard Model</i> Matheus da Silva	<i>Axions and the Strong CP Problem</i> Milena Bastos
Break				
16:30	<i>Quantum Field Theory in Curved Space</i> Thiago Campos	<i>The Operator Product Expansion</i> Murilo Godoy	<i>Early Universe Phase Transitions and Signals in Gravitational Waves</i> Beatriz Tucci	<i>Monopoles and Confinement</i> Kesley Raimundo
17:30	<i>Conformal Invariance and the Bootstrap Program</i> Pedro Tredézini	<i>The Background Field Method</i> Kevin Pala	<i>Inflation and Structure Formation</i> Thiago Mergulhão	<i>Instantons and Baryon Number Non-Conservation in the Standard Model</i> Felipe Almeida