

# Florence Theory Group Day

## Program

- 09:15 - 09:30 Welcome (Stefania De Curtis, Duccio Fanelli).  
09:30 - 09:50 Alice Bernamonti: *Rényi laws for black holes*.  
09:50 - 10:10 Jacopo Papalini: *Nonperturbative aspects of JT gravity and TT deformation*.  
10:10 - 10:30 Luigi Guerrini: *Topological sectors with defects*.  
10:30 - 10:50 Andrea Tesi: *Dark Matter from inflationary fluctuation*.

## 10:50 - 11:20 coffee break

- 11:20 - 11:40 Raghuveer Garani: *Condensation of dark matter at galactic scales*.  
11:40 - 12:00 Francesca Acanfora: *Fusing photons into Dark Matter at Belle II*.  
12:00 - 12:20 Dimitri Colferai: *Perturbative QCD at high-energy for jet physics at hadron and lepton colliders*.  
12:20 - 12:40 Eduardo Grossi: *Polarization observables in heavy ion collisions*.  
12:40 - 13:00 Xin Li Sheng: *Global spin alignment of vector mesons in heavy ion collisions*.

## 13:00 - 14:30 lunch break

- 14:30 - 14:50 Giancarlo Mattia: *Resistive relativistic MHD and numerical simulations of astrophysical jets*.  
14:50 - 15:10 Andrea Placidi: *Gravitational wave modeling for non-circular binary black holes within the effective one-body approach*.  
15:10 - 15:30 Luca Barbieri: *Temperature inversion in a gravitationally bound plasma: the case of the solar corona*.  
15:30 - 15:50 Paola Verrucchi: *When quantum talks classical: from clocks to black holes*.  
15:50 - 16:10 Jason Pereira: *Learning to classify quantum states*.

## 16:10 - 16:40 coffee break

- 16:40 - 17:00 Matteo Ciardi: *Supersolid phases of bosons in a spherical geometry*.  
17:00 - 17:20 Luca Celardo: *Cooperativity and Sensing: from Condensed Matter Physics to High Energy Physics*.  
17:20 - 17:40 Lorenzo Giambagli: *Learning with the spectrum in Neural Networks*.  
17:40 - 18:00 Francesco Piazza: *The physics of "the second secret of life"*.



Istituto Nazionale di Fisica Nucleare  
SEZIONE DI FIRENZE