

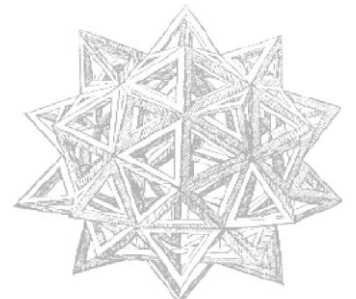
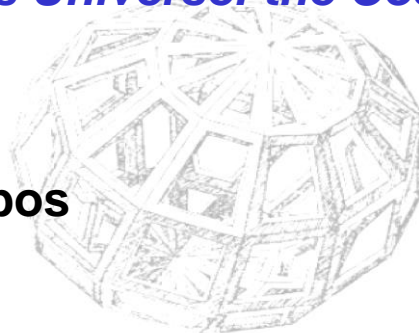


UNIVERSITA' DEGLI STUDI DI PAVIA

*DOTTORATO DI RICERCA IN FISICA*

**SEMINARI DEI DOTTORANDI**  
**Dipartimento di Fisica, aula 102 e Zoom**  
**Giovedì 1 Ottobre 2020**

- 9.00-9.30      **Davide Cicolari**  
*MRI phantom calibration for relaxation times maps harmonization and optimization*
- 9.30-10.00    **Lisa Rinaldi**  
*The reproducibility of radiomic features in lung patients and the need for phantoms*
- 10.00-10.30    **Andrea Barone**  
*Non-linear processes in photonic crystal nanocavities*
- 10.30-11.00    **Break**
- 11.00-11.30    **Stefano Mangini**  
*Quantum Machine Learning: state of the art, drawbacks and perspectives*
- 11.30-12.00    **Claudio Sutринi**  
*Computation and information in quantum physics education. A new way to introduce quantum physics*
- 12.00-12.30    **Jinky Awarwala**  
*Post LHC Colliders*
- 12.30-14.00    **Lunch break**
- 14.00-14.30    **Luca Zatti**  
*Integrated silicon photonic circuits for quantum applications*
- 14.30-15.00    **Tommaso Perani**  
*Integrated optics based on Bloch surface waves*
- 15.00-15.30    **Francesca Familiari**  
*Dealing with the inhomogeneous Universe: the Cosmographic approach*
- 15.30-16.00    **Break**
- 16.00-16.30    **Lissa De Souza Campos**  
*Anti-Hawking effect*
- 16.30-17.00    **Paolo Rinaldi**  
*Renormalizing stochastic partial differential equation*





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**Venerdì 2 Ottobre 2020**

- 9.00-9.30 Matteo Lugli  
*Fermionic quantum cellular automata*
- 9.30-10.00 Federico Sclavi  
*The  $\Phi^4$  Equation in Physical Models*
- 10.00-10.30 Leonardo Lonati  
*Combined theoretical/experimental approaches to study the effects of ionizing radiation on cell cycle progression*
- 10.30-11.00 *Break*
- 11.00-11.30 Leonardo Vaglini  
*The compression task in classical and quantum theories and beyond*
- 11.30-12.00 Chiara Magni  
*Experimental and computational studies for AB-BNCT implementation*
- 12.00-12.30 Yang Han  
*Feasibility and Biological studies to combine BNCT and Carbon Ion Therapy*
- 12.30-14.00 *Lunch break*
- 14.00-14.30 Efstathios Charlaftis  
*Implementation of dynamic nuclear polarization in organic compounds of biomedical interest*
- 14.30-15.00 Alessandro Veronese  
*Lead-free halide perovskite nanocrystals*
- 15.00-15.30 Davide Fiorina  
*ME0 project: The ultimate challenge for gas detectors*
- 15.30-16.00 *Break*
- 16.00-16.30 Chiara Aimé  
*Search of dark matter and supersymmetry at the CMS experiment*
- 16.30-17.00 Simone Calzaferri  
*A L1 trigger study on  $\tau \rightarrow 3\mu$  channel with GEM detectors in CMS*

