

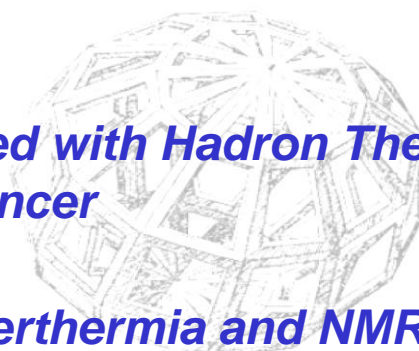


UNIVERSITA' DEGLI STUDI DI PAVIA

DOTTORATO DI RICERCA IN FISICA

SEMINARI DEI DOTTORANDI
Dipartimento di Fisica, aula di Dottorato
Venerdì 5 Ottobre 2018

- 9.00-9.30 **Alessandro Cicchetti**
Radiation damage analysis of human skeletal muscle cells: experimental data and Monte Carlo simulation
- 9.30-10.00 **Nicolò Valle**
Quark-Gluon Plasma in relativistic heavy ion collisions
- 10.00-10.30 **Marco Clementi**
Photonic crystal cavities for nonlinear and quantum optics
- 10.30-11.00 **Break**
- 11.00-11.30 **Francesco Garrisi**
Periodic integrated structures for classical and quantum optics
- 11.30-12.00 **Alberto Riccardi**
Quantum thermodynamics of a two-mode bosonic system
- 12.00-12.30 **Lorenzo Pezzotti**
Calorimetry development at the high energy physics frontiers
- 12.30-14.15 **Lunch break**
- 14.15-14.45 **Simone Sottocornola**
ATLAS hardware-based tracking at trigger level
- 14.45-15.15 **Chiara Bissolotti**
The transverse momentum of quarks: phenomenology
- 15.15-15.45 **Fulvio Piacenza**
Towards a better determination of the momentum of quarks inside the proton
- 15.45-16.00 **Break**
- 16.00-16.30 **Francesca Brero**
Magnetic Hyperthermia combined with Hadron Therapy: a new ally against pancreatic cancer
- 16.30-17.00 **Matteo Avolio**
Magnetic Nanoparticles for Hyperthermia and NMR: influence of key physical parameters such as size, shape, porosity and medium viscosity





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Lunedì 8 Ottobre 2018

- 9.00-9.30 Michele Grossi
Feasibility study of semileptonic VBS signal discrimination at LHC
- 9.30-10.00 Francesco Tacchino
Of spins, springs and quantum computers
- 10.00-10.30 Nicola Bergamasco
Spectral correlations of photon pairs generated via parametric fluorescence in selected photonic platforms
- 10.30-11.00 *Break*
- 11.00-11.30 Federico Andrea Sabbatoli
Integrated photon sources for quantum applications
- 11.30-12.00 Kyungdon Choi
Uncertainty of Hadrontherapy and some challenges
- 12.00-12.30 Simone Rodini
From 1D to 3D proton map: an ongoing journey
- 12.30-14.15 *Lunch break*
- 14.15-14.45 Stefano Sconfiatti
Proton structure from Compton scattering
- 14.45-15.15 Leopoldo Poggiali
The power of Nonlinear Fermionic Cellular Automata
- 15.15-15.45 Benedetta Albini
Surface-Enhanced Raman Spectroscopy
- 15.45-16.00 *Break*
- 16.00-16.30 John Tello
Chromosome 3D-modelling using Hi-C data
- 16.30-17.00 Giulia Rovelli
Search for Dark Matter production in association with heavy quarks at the ATLAS experiment

