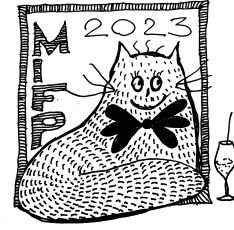




# The XIII March Meeting



Hotel *Castel Vecchio*, Castel Gandolfo (RM) Italy, March 1<sup>st</sup> - 5<sup>th</sup> 2023

## PROGRAM

### 1<sup>st</sup> of March

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*Arrival of participants*

19.00 *Welcome cocktail "Bar Carosi" in front of the Papal Palace*

### 2<sup>nd</sup> of March

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09.00 - 09.15 *Opening*

09.15 - 09.45 **Andrey Varlamov**, "The scientific biography of the Nobel Prize Alex Abrikosov"

09.45 - 10.15 **Paul Walker** "Observation of Zitterbewegung in optical microcavities"

10.15 - 11.15 *Coffee break.*

11.15 - 11.45 **Alexey Kavokin**, "The dualism of matter and consciousness from the point of view of quantum cosmology, per PLMCN Entanglement of vortices in polariton condensates"

11.45 - 12.15 **Helgi Sigurðsson**, "Observation of persistent spin oscillations with Q-factor > 500 in cavity polariton Bose-Einstein condensates"

12.15 - 12.45 **Olivia Pulci**, "Transitions in Xenon between excitonic, topological and trivial insulator phases: influence of screening, band dispersion and external electric field"

13.00 - 15.00 *Lunch break.*

15.00 - 15.30 **Vasil Saroka**: "Topology 1D metal and pitchfork bifurcation in dissipationless quantum transport"

15.30 - 16.00 **Vincenzo Giannini**, "Casimir Nanoparticle Levitation in Vacuum"

16.00 - 16.30 **Daniele Maria Trucchi**, "Defect engineering of wide bandgap semiconductors by ultrashort laser pulses"

16.30 - 17.00 *Coffee break.*

17.00 - 17.30 **Andrea Orsini**, "Charge transport properties of black diamond"

17.30 - 18.00 **Daniele Baretin**, "Direct band gap AlGaAs wurtzite nanowires"

18.00 - 18.30 **Antonio Maffucci**, "Round table 2DSense Project"

19.30 *Dinner: Pizza experience at the oldest "fraschetta" of Castel Gandolfo "Sor Capanna"*

### 3<sup>rd</sup> of March

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- 09.30 - 10.00 **Antonio Maffucci, “Advanced sensing systems with nanomaterials and machine learning”**
- 10.00 - 10.30 **Portnoi Mikhail, “To the theory of quantum Hall effect”**
- 10.30 - 11.00 *Coffee break.*
- 11.00 - 11.30 **Pier Gianni Medaglia “Dielectric Properties of Layered Double Hydroxides (LDHs): a family of nanostructured materials for biomedical, environmental and energy applications.”**
- 11.30 - 12.00 **Salvatore Monteleone, “Exploiting Approximation in Hardware and Software implementations”**
- 12.00 - 12.30 **Matteo Ginesi, “How emerging AI tools are impacting learning and teaching, such as ChatGPT”**
- 13.00 - 15.00 *Lunch break.*
- 15.00 - 15.30 **Gennaro Ponticelli, “New advances in manufacturing and materials processing: towards a sustainable transformation”**
- 15.30 - 16.00 **Ilaria Mileti, “Wearable and non-wearable robotics for human training and assistance”**
- 16.00 - 16.30 *Coffee break.*
- 16.30 - 17.00 **Pietro Oliva, “Science and Telematics: parallel competences in modern didactic”**
- 17.00 - 17.30 **Gino Bella, “Athena round table and closing session”**
- 19.30 *Social Dinner: transfer to Frattocchie to the “Hostaria Trinca”*

### 4<sup>th</sup> of March

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- 08.30 - 17.30 *Excursion to Orvieto City, access to historical sites, Orvieto underground and Saint Patrick well. Regional lunch in Trattoria “La Mezza Luna”*

### 5<sup>th</sup> of March

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*Departure day*

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