



Programma

Mercoledì 13 settembre 2023

Sala Olimpica, Teatro Vittoria
Bosco Chiesanuova (VR)

14.00 **Registrazione**

14.45 **Apertura del XXXIV Congresso Annuale SISN**

Saluti istituzionali

Claudio Melotti, Sindaco di Bosco Chiesanuova

Barbara Asinari, Consigliere Comunale con delega al Turismo e Commercio

Carmelo Melotti, Vicepresidente della Cassa Rurale Vallagarina

I Sessione scientifica

Chair: Alessandro Paciaroni

15.00

The world is not enough: leveraging multi-scale modelling to bridge computer simulations and experiments in soft matter

Raffaello Potestio

15.30

Detection of Gram(-) endotoxins: a study on the biorecognition-target interaction by means of Neutron Reflectometry

Alessandro Cangiano

15.50

In-solution and interface study on biological membranes and their interaction with Prohibitin

Alice Piccinini

16.10

On the structural organization of functionalized nanoparticles through Small-Angle Neutron Scattering

Noemi Gallucci

16.30 **Coffee Break**

II Sessione scientifica

Chair: Tatiana Guidi

17.00

The role of phonons in magnetic relaxation of molecular nanomagnets unraveled by inelastic neutron scattering

Elena Garlatti

17.30

Attività del Laboratorio di Metrologia dei neutroni dell'INMRE-ENEA

Luca Silvi

17.50

Status of the SORGENTINA-RF project

Antonino Pietropaolo

18.10

The GNeuS project, 19 post-doc positions in neutron sciences

Flavio Carsughi

20.00 **Cena**

Hotel Lessinia

Piazza degli Alpini 3, Bosco Chiesanuova

Giovedì 14 settembre 2023

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III Sessione scientifica

Chair: Daniele Colognesi

9.00

Single photon emitters: GaAsN:H quantum dots and color centers in silicon

Francesco Biccari

9.30

Ionic liquid as a cosolvent: effect on an aqueous peptide solution

Ram Sankar Panigrahy

9.50

Science in a Cup of Coffee: A Structural Study of a Trigonelline Aqueous Solution

Fabio Bruni

10.10

From IN8 to THERMES – A versatile thermal three-axis spectrometer at ILL

Andrea Piovano

10.30 **Coffee Break**

IV Sessione scientifica

Chair: Giuseppe Vitiello

11.00

Effect of Polymorphism and Ligand Binding on G-quadruplex Fast Dynamics probed by Elastic Incoherent Neutron Scattering

Luca Bertini

11.20

Structure and stability in self-assembled multidomain peptide fibres

Najet Mahmoudi

11.40

SANS study of liposomes embedded with OprF porins of Pseudomonas Aeruginosa

Francesco Spinozzi

12.00

The Neutron Resonance Transmission Imaging technique for elemental characterization of crucibles coming from brass workshops of the ancient Roman Mediolanum

Giulia Marcucci

12.20

Tecniche di Luce di Sincrotrone per la Scienza dei Beni Archeologici

Franco Zanini

13.00 **Pranzo**

Hotel Frizzolan
Piazza Borgo 5, Bosco Chiesanuova

Trent'anni di SISN

Chair: Marco Zanatta

14.30

Storia dei neutroni in Italia

Francesco Sacchetti

15.00

Ancient Egypt bronze coffins investigation by Neutron Imaging

Francesco Cantini

15.30

Dynamic personality of proteins and effect of the molecular environment

Valeria Libera

16.00

A spectrometric transfer instrument for neutron metrology

Alessandro Lega

16.30

IN13+: more flux, more science

Francesca Natali

17.00

Poster session

- *Amorphous-amorphous transformation induced in glasses by intense x-ray beams*
Erica Alfinelli
- *SAXS characterization of gel nanocomposite containing fluorine doped zinc oxide nanoparticles*
Junaid Ali
- *Purification and SAXS analysis of the Nucleocapsid Protein of the SARS-CoV 2 virus*
Yessica Roque Diaz
- *GO/silica nanocomposites for white light sources*
Chiara Giustini
- *Sonobioreactor: a novel platform to study ultrasounds-induced bioeffects*
Tommaso Mancini
- *Innovative neutron guide replacement at the ILL*
Giuliana Manzin
- *Development of drug delivery systems for hydrophobic metastatic melanoma inhibitors*
Pietro Milesi
- *Purification and characterization of iron oxide nanoparticles (IONs) and their potential use as drug delivery vectors*
Paolo Moretti
- *Development of topoelectric circuits via transmission lines*
Denis Nabari
- *Characterization of 3D micro-structured TIMEPIX detectors for neutron imaging*
Matteo Polo
- *Laboratorio di Metrologia dei neutroni dell'INMRI-ENEA: Simulazioni a supporto delle attività sperimentali*
Lucrezia Spagnuolo
- *Scientific analysis of a Classic Maya ceramic vessel: insights into composition and pottery technique*
Alessia Venturi
- *PEG-based biomolecular sensors*
Margherita Recanatini

18.00 **Chiusura dei lavori**

20.00 **Cena sociale**

Agriturismo la Marmacola
Contrada S. Margherita, Bosco Chiesanuova

Venerdì 15 settembre 2023

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9.00

Assemblea dei soci SISN

11.00 **Coffee Break**

11.30 **Tavola rotonda**

Società Italiana di Scienze Neutroniche:
quali sfide per i prossimi anni

12.30 **Conclusioni e saluti**