

NEUTRONS MATTER



VII International Workshop on Electron-volt Neutron Spectroscopy
Villa Wolkonsky and Centro Fermi, Rome, Italy
7th – 8th November 2017

Programme

TUESDAY 7 NOVEMBER 2017

11:30 Venue Villa Wolkonsky

Registration

12:00 Lunch

13:00 Opening and Welcome Address

Jill Morris (British Ambassador to Italy), **Andrew D. Taylor** (Executive Director National Laboratories Science and Technology Facilities Council)

Carla Andreani Occhialini Prize Lecture (University of Tor Vergata & Centro Fermi)
Hydrogen dynamics in stable and metastable water by deep inelastic neutron scattering

13:30 Session – Fundamental Systems

Chair: Felix Fernandez-Alonso (Science and Technology Facilities Council)

Alexander Kolesnikov (Oak Ridge National Laboratory, SNS)

Inelastic and deep inelastic neutron scattering study of water under ultra-confinement

Francesco Mallamace (University of Messina)

Nuclear Compton scattering and nuclear magnetic resonance, a common way to understand the local order

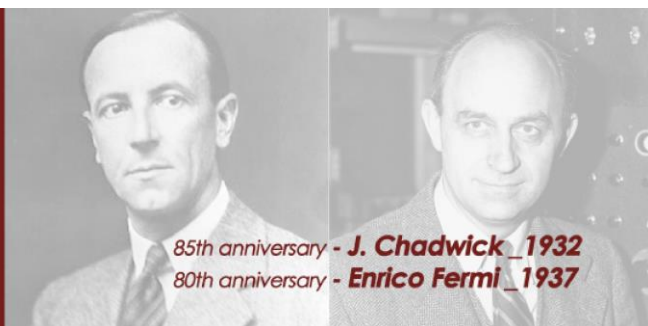
Daniele Colognesi (CNR-ISC, Florence)

Self dynamics in simple liquids: connections between the gaussian approximation and the asymptotic impulsive regime

Discussion

15:00 Coffee Break

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15:30 Session – Simulation and Modelling

Chair: Roberto Senesi (University Rome Tor Vergata and Centro Fermi)

Roberto Car (Princeton University)

The momentum distribution of the nuclei as an environmental probe

Angelos Michaelides (University College London)

Quantum effects in adsorption and diffusion at solid surfaces

Michele Ceriotti (Ecole Polytechnique Fédérale de Lausanne)

Theoretical benchmarks of deep inelastic neutron scattering. From the kinetic energy to the full particle momentum distribution

Discussion

17:00 POSTER Session

20:00 Conference Dinner

WEDNESDAY 8 NOVEMBER 2017

8:30 Session – Beyond Fundamental Systems

Chair: Roberto Car (Princeton University)

Gregory Chass (Queen Mary University of London)

Atomistic and vibrational source of mechanical toughness in glass bio-cements and portland cement during setting

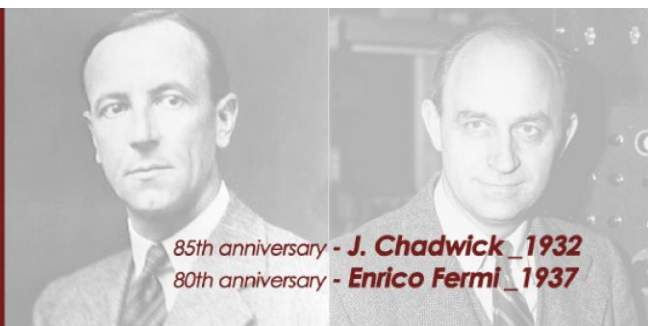
Fengge Gao (Nottingham Trent University)

Better understanding of self-cross linking behaviour of smectite nanoclays through VESUVIO

Christoph Salzmann (University College London)

Ice - a miraculous material

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09:45 *Coffee Break*
Group Photo

10:00 **Session – Methods and Instrumentation**

Chair: Giuseppe Gorini (University Milano Bicocca)

Anton Tremsin (University of California at Berkeley)

High resolution neutron transmission imaging with single pixel spectroscopic resolution

Erick Schooneveld (Science and Technology Facilities Council)

Detection of epithermal neutrons on Vesuvio

Rolando Granada (Comisión Nacional de Energía Atómica)

Neutron Moderation: Some Recent Problems and Results

11:15 *Transfer to Centro Fermi*

12:00 *Venue Centro Fermi*

Welcome Address

Luisa Cifarelli (President of Centro Fermi)

The lost notebook of Enrico Fermi and the discovery of neutron induced radioactivity

Rosario Nania (Centro Fermi)

The Centro Fermi in Rome: the projects, the future

12:45 *Lunch*

Group Photo

14:00 *Ceremony - “Neutrons Matter” Prize*

Wrap up

16:00 **Close**