



SCIENTIFIC PROGRAMME

NUCLEAR PHYSICS MID-TERM PLAN 1st-2nd December 2022

Thursday, 1 December 2022

09:00 **Welcome Address** 10'
Speakers: F. Bossi (Director of INFN-LNF)

09:10 **Workshop Presentation** 10'
Speaker: R. Nania (President of CSN3-INFN)

WG1 – Future possibilities for nuclear physics at DAFNE

09:20 **Nuclear Physics at DAFNE** 25'+5'
Speaker: C. Curceanu

09:50 **Femtoscscopy at SIDDHARTA and ALICE** 25'+5'
Speaker: O. Vasquez

10:20 **Discussion** 15'+5'

10:40 - 11:00 **Coffee break** 20'

WG2 – Charged Particle Detectors (Chairs: G. Pasquali, F. Galtarossa, L. Servoli)

11:00 **Pulse Shape Discrimination, Silicon Carbide detectors, Active Targets** 25'+5'
Speaker: G. Pasquali

11:30 **Segmented silicon detectors, heavy ion detection and spectrometers** 25'+5'
Speaker: F. Galtarossa

12:00 **Diamond detectors, emulsions and other techniques** 25'+5'
Speaker: L. Servoli

12:30 **Discussion** 15'+5'

12:50 – 13:20 **Silicon detectors for high-energy experiments – D. Colella** 25'+5'

13:20 – 14:20 **Lunch break** 60'

WG3 – Neutron Detectors (Chairs: C. Massimi, A. Gottardo)

- 14:20 **Organic scintillators for neutron detection** 25'+5'
Speaker: A. Best
- 14:50 **Detectors for neutron beams and applications** 25'+5'
Speaker: S. Amaducci
- 15:20 **Innovative neutron detectors** 25'+5'
Speaker: M. Toppi
- 15:50 **Summary and discussion** 15'+5'

16:10 - 16:30 **Coffee break** 20'

WG4 – Detectors for medical applications (Chairs: R. Catalano, P. Cardarelli, M. Lunardon)

- 16:30 **Treatment monitoring and optimisation** 25'+5'
Speaker: P. Cerello
- 17:00 **Dosimetry, quality assurance and radiotherapy** 25'+5'
Speaker: G. Petringa
- 17:30 **X-ray and gamma imaging** 25'+5'
Speaker: L. Brombal
- 18:00 **Summary and discussion** 15'+5'

20:00 - 22:30 **Social dinner – Ristorante “Al Fico”, Grottaferrata**

Friday, 2 December 2022

WG5 - Target development for nuclear physics (Chair: M. Cavallaro, S. Corradetti)

- 09:00 **Innovative targets for nuclear physics experiments** 25'+5'
Speaker: F. Pinna
- 09:30 **Innovative targets for new production facilities** 25'+5'
Speaker: S. Cisternino
- 10:00 **Summary and discussion** 15'+5'

10:20 - 10:50 **Coffee break** 30'

WG6 – Detectors for gamma/X-radiation (Chair: A. Scordo, W. Raniero)

- 10:50 **X-ray detectors** 40'+5'

Speaker: M. Miliucci

11:35 **Gamma detectors** 30'+5'

Speaker: F. Sgarbossa

12:10 **Summary and discussion** 15'+5'

12:30 – 14:00 **Lunch break** 90'

WG7 – New facilities at LNF, LNL and LNS (Chair: A. Di Pietro, A. Gottardo)

14:00 **New facilities at Laboratori Nazionali di Legnaro** 40'+5'

Speaker: G. Benzoni, A. Goasduff

14:45 **New facilities at Laboratori Nazionali del Sud** 25'+5'

Speaker: D. Carbone

15:15 **New facilities for laser-based activities at LNF and LNS** 40'+5'

Speaker: D. Lattuada

16:00 **Summary and discussion** 15'+5'

16:20 **Final discussion** 20'

16:40 – 17:10 **Coffee break** 30'

17:10 **Departure**