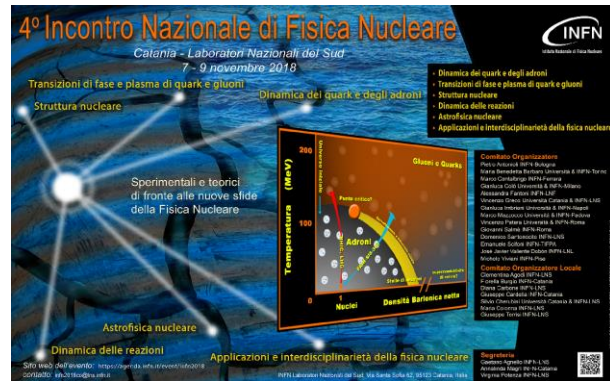


# Programma INFN2018

Mercoledì 7 novembre



8:30 REGISTRAZIONE

09:00 – 09:15 Saluti

Chair: **G.ORLANDINI (Trento) Astrofisica nucleare e sistemi a pochi corpi**

09:15 – 09:45 A. Di Leva (NA): *Direct measurement of cross sections of astrophysical interest* (25+5)

09:45– 10:15 A. Mengoni (BO): *n-captures in stars* (25+5)

10:15 – 10:45 W. Leidemann (TN): *Calculation of astrophysical S-factor using the Lorentz integral transform* (25+5)

10:45 – 11:15 pausa caffè

Chair: **E.VIGEZZI (Milano) Astrofisica e reazioni nucleari**

11:15 – 11:35 A.Gnech (GSSI): *Theoretical calculation of  $p$ - ${}^6\text{Li}$  capture reaction* (15+5)

11:35 – 11:55 D.Testov (PD): *Star on table: beta-decay properties of neutron rich nuclei for astrophysics applications* (15+5)

11:55 – 12:15 N.Martorana (LNS): *On the nature of the low-energy E1 strength in  ${}^{68}\text{Ni}$*  (15+5)

12:15 – 12:35 M.Cicerchia (LNL): *Studying the decay of  ${}^{46}\text{Ti}^*$ ...* (15+5)

12:35 – 12:55 A.Manna (BO): *Measurement of the  ${}^{235}\text{U}(n,f)$  cross section relative to n-p scattering up to 1 GeV at  $n_{\text{TOF}}$*  (15+5)

13:00 – 15:00 pranzo

Chair: **E.SCOMPARIN (Torino) Plasma di quark e gluoni**

15:00 – 15:30 G.Pagliara (FE): *Merger of two neutron stars: a multi-messenger analysis and a tool for dense matter nuclear physics* (25+5)

15:30 – 16:00 A. Beraudo (TO): *Heavy Flavor dynamics in Hot QCD matter* (25+5)

16:00 – 16:20 F.Grosa (TO): *Probing the Quark-Gluon Plasma using charmed hadrons with ALICE at the LHC* (15+5)

16:20 – 16:40 G.Coci (LNS): *Propagation of charm and bottom in QGP with a Boltzmann approach: transport coefficients and elliptic flow* (15+5)

16:40 – 17:10 pausa caffè

Chair: **G.F. BURGIO (Catania) Dinamica di quark, adroni e sistemi a molti corpi**

17:10 – 17:40 M. Rinaldi (PG): *Le interazioni a molti partoni: una nuova finestra sulla fisica adronica a LHC* (25+5)

17:40 – 18:00 Jinbiao Wei (CT): *Constraining the nuclear matter EoS from the GW170817 merger event* (15+5)

18:00 – 18:20 L.Riz (TIFP-Trento): *Neutrino Mean Free Path in neutron matter from QMC equation of state* (15+5)

18:20 – 19:30 POSTER SESSION

20:00 CENA DI BENVENUTO AI LNS

## Giovedì 8 novembre

Chair: **D.BETTONI (LNL) Dinamica dei quark e degli adroni**

09:00 – 09:30 A. Celentano (GE): *I primi risultati da JLAB12* (25+5)

09:30 – 10:00 P. Pedroni (PV): *Fisica adronica con fasci di fotoni reali ad ELSA e MAMI* (25+5)

10:00 – 10:20 A. Giachino (GE): *LHCb pentaquarks as compact five-quark states* (15+5)

10:20 – 10:40 V. Brio (CT): *HCAL-J: Hadron calorimeter for the study of nucleon Form Factors at Jefferson Lab* (15+5)

**10:40 – 11:10 pausa caffè**

Chair: **R.NANIA (Bologna) Plasma di quark e gluoni**

11:10 – 11:40 F. Bellini (CERN): *Strangeness enhancement, collectivity, multiplicity dependence in small and large systems after LHC Run 2* (25+5)

11:40 – 12:10 R. Lea (TS): *Light nuclei formation in heavy-ion collisions: coalescence vs thermal models* (25+5)

12:10 – 12:30 E. Meninno (SA): *Studio di barioni con charm in collisioni pp, p-Pb e Pb-Pb ad LHC* (15+5)

**12:45– 14:30 pranzo**

Chair: **E.G.LANZA (Catania) Struttura nucleare e dinamica delle reazioni**

14:30 – 15:00 G. Benzoni (MI): *Decadimento beta in nuclei esotici ed esperimenti a SPES con fasci non riaccelerati* (25+5)

15:00 – 15:30 I. Lombardo (CT): *Clustering in nuclei* (25+5)

15:30 – 15:50 S. Calabrese (LNS): *Single and double charge-exchange reactions ...* (15+5)

15:50 – 16:10 V. Mossa (BA): *Direct measurement of the  $^2\text{H}(p,\gamma)^3\text{He}$  cross section at the BBN energy range at LUNA* (15+5)

**16:10 – 16:40 pausa caffè**

Chair: **A.GARGANO (Napoli) Struttura nucleare e dinamica delle reazioni**

16:40 – 17:10 I. Vidana (CT): *Equazione di stato nucleare e stelle di neutroni* (25+5)

17:10 – 17:40 L. Fortunato (PD): *Reazioni nucleari di interesse per nuclei esotici* (25+5)

17:40 – 18:00 T. Fukui (NA): *Realistic shell-model calculations with chiral three-body force* (15+5)

**20:30 CENA SOCIALE (Catania, centro storico)**

## Venerdì 9 novembre

Chair: **V.PATERA (Roma I)** **Applicazioni della fisica nucleare**

09:00 – 09:30 P. Cirrone (LNS): *pBCT: Proton Boron Capture Therapy* (25+5)

09:30 – 10:00 A. Vignati (TO): *Rivelatori al Silicio ultra-fast per applicazioni mediche* (25+5)

10:00 – 10:20 D.Mascali (LNS): *Magnetized Plasmas in Compact Traps for Astrophysics and Nuclear Astrophysics* (15+5)

10:20 – 10:40 G.Germogli (FE): *INFN-TROPIC: Target for Radioisotope Production via Anti-Channeling* (15+5)

**10:40 – 11:10** pausa caffè

Chair: **G.CUTTONE (LNS)** **Applicazioni della fisica nucleare**

11:10 – 11:40 S. Montangero (Ulm Univ.): *Tecnologie quantistiche per teorie di gauge su reticolo* (25+5)

11:40 – 12:10 M.C. Morone (RM-Tor Vergata): *Frammentazione dei nuclei target in fasci di protoni* (25+5)

12:10 – 12:30 E. Bellinzona (TIFPA): *Radiological impact of mixed fields from target fragments in proton treatment plans* (15+5)

12:30 – 12:50 G.Petringa (LNS): *Innovative device for online in-vivo dose monitoring based on charge unbalance in patients undergoing radiotherapy* (15+5)

**13:00 – 15:00** pranzo

**15:00 – 16:30** **Discussione: Prospettive future della Fisica Nucleare Italiana**

Con l'intervento di: A.Lerda (*Presidente CSN4*), M.Taiuti (*Presidente CSN3*),  
D.Bettoni (*Direttore LNL*), G.Cuttone (*Direttore LNS*).

**16:30** **FINE LAVORI**