

# CALENDARIO DIDATTICO DEL DOTTORATO DI RICERCA IN FISICA

**A.A. 2025/2026**

A practical introduction to deep learning in physics	Anastasi, G.A.	26/01/2026, 10:00-12:00/14:00-16:00; 27/01/2026, 14:00-16:00; 29/01/2026, 10:00-12:00/14:00-16:00; 30/01/2026, 10:00-12:00/14:00-16:00.
Advanced numerical methods of physics	Angilella, G.G.N.	28/05/2026, 15:00-18:00; 03/06/2026, 15:00-18:00; 04/06/2026, 15:00-18:00; 08/06/2026, 15:00-18:00; 11/06/2026, 15:00-18:00; 15/06/2026, 15:00-18:00; 18/06/2026, 15:00-18:00.
Advanced Physics of Medical Imaging	Stella G.	9/04/2026, 10:00-13:00; 16/04/2026, 10:00-13:00; 23/04/2026, 10:00-13:00 30/04/2026, 10:00-13:00; 7/05/2026, 10:00-13:00.
Advanced Statistical Methods for Astronomy and Astrophysics	Lanzafame, A.	26/02/2026, 10:00-13:00; 04/03/2026, 10:00-13:00; 11/03/2026, 10:00-13:00; 13/03/2026, 10:00-13:00; 18/03/2026, 10:00-12:00
Advanced Stellar Evolution	Pumo, M.L.	9/12/2025, 09:00-14:00; 10/12/2025 09:00-14:00; 17/12/2025 09:00-13:00
Advanced Topics in Nuclear Astrophysics	La Cognata, M.	16/03/2026 15:00-17:00; 17/03/2026 15:00-19:00; 18/03/2026 15:00-19:00 19/03/2026 15:00-19:00; 20/03/2026 14:00-17:00
Advanced topics in nuclear dynamics and reaction mechanisms with stable and radioactive beams	Pirrone S. - Gnoffo B.	8/05/2026, 10:00-12:00; 13 /05/2026, 10:00-12:00; 19 /05/2026, 10:00-12:00; 21 /05/2026, 10:00-12:00; 22 /05/2026, 10:00-12:00; 16 /05/2026, 10:00-12:00; 17 /05/2026, 10:00-12:00
Advanced topics in quantum field theory	Branchina V.	<i>t.b.a.</i>
An introduction to Python and its scientific use	Ingallinera, A.	25/05/2026 10:00-12:00, 27/05/2026 10:00-12:00; 29/05/2026 10:00-12:00; 3/06/2026 10:00-12:00; 5/06/2026 10:00-12:00; 8/06/2026 10:00-12:00; 10/06/2026 10:00-12:00
Analog and Digital Electronics for Modern Detectors	Lo Presti D.	27/01/2026, 10:00-12:00; 04/02/2026, 10:00-12:00 09/02/2026, 10:00-12:00;12/02/2026, 10:00-12:00;16/02/2026, 10:00-12:00 18/02/2026, 10:00-12:00; 25/02/2026, 10:00-12:00
Charge transport and devices simulations	La Magna, A.	4/05/2026, 11:00-13:00; 6/05/2026, 11:00-13:00; 8/05/2026, 11:00-13:00 11/05/2026, 11:00-13:00; 13/05/2026, 11:00-13:00; 15/05/2026, 11:00-13:00 18/05/2026, 11:00-13:00
Clusters in Atomic Nuclei	Lombardo, I.	16/01/2026, 10:00-13:00; 20/01/2026, 10:00-13:00; 21/01/2026, 10:00-13:00; 22/01/2026, 10:00-13:00; 23/01/2026, 10:00-12:00.
Cosmological inflation and large-scale structure	Puglisi G.	6/07/2026, 9:00-12:00/14:00-18:00; 7/07/2026, 9:00-12:00/14:00-18:00 8/07/2026, 9:00-12:00/14:00-18:00; 9/07/2026, 9:00-12:00
Direct Reactions with Heavy Ions	Cappuzzello, M. Colonna, F.	26/01/2026, 9:30 - 11:30; 28/01/2026, 9:30 - 12:00; 30/01/2026, 9:30 - 12:00; 2/02/2026, 10:00 - 12:00; 3/02/2026, 10:00 - 12:30; 3/02/2026, 10:00 - 12:30.
Experimental searches for Dark Matter	De Napoli, M.	30/01/2026, 12:00 – 14:00; 3/02/2026, 10:00 – 11:00; 10/02/2026, 9:30 – 12:30; 17/02/2026, 10:00 -12:00 23/02/2026, 9:30-11:30; 3/02/2026, 11:00 – 13:00; 11/03/2026, 9:00 – 11:00
Experimental methods in Astroparticle Physics	Caruso, R.	08/04/2026, 14:30-17:30; 15/04/2026, 14:30-17:30; 22/04/2026, 14:30-17:30; 29/04/2026, 14:30-17:30; 06/05/2026, 14:30-17:30; 13/05/2026, 14:30-17:30; 20/05/2026, 14:30-17:30
Femtoscscopy and two-particle correlations in subatomic physics	Verde G. ; Pagano E.	<i>t.b.a.</i>
Finite-Temperature Field Theory	Plumari S.	03/02/2026, 9:00-12:00; 09/02/2026, 10:00-12:00 e 15:00-17:00 11/02/2026, 15:00-18:00; 13/02/2026, 9:00-13:00
Insights on Primordial Nucleosynthesis”	Pizzone G.	06/03/2026, 14:00-17:00; 12/03/2026, 15:00-18:00 17/03/2026, 14:00-17:00; 24/03/2026, 14:00-17:00; 27/03/2026, 15:00-17:00
Mathematica for Physicists: computational methods and tools	Ridolfo, A.	5/05/2026, 14:00-17:00; 12/05/2026 14:00-17:00; 19/05/2026 14:00-17:00; 26/05/2026 14:00-17:00
Neutrino Physics	Sapienza, P.	12/02/2026, 11:00-13:00; 20/02/2026, 11:00-13:00; 13/03/2026, 11:00-13:00; 24/03/2026, 11:00-13:00; 31/03/2026, 09:00-11:00; 09/04/2026, 11:00-13:00; 14/04/2026, 11:00-13:00.
Neutron rich nuclear matter Equation of State in nuclear physics	Geraci E.	12/12/2025, 08:00-11:00; 16/12/2025, 12:00-14:00; 17/12/2025, 10:00-13:00; 21/04/2026, 16:00-18:00; 23/04/2026, 14:00-17:00
Non-equilibrium Quatum Field Theory	Chiriaco, G.	9/04/2026 9:00-11:00; 16/04/2026 9:00-11:00; 7/05/2026 9:00-11:00; 14/05/2026 9:00-11:00; 21/05/2026 9:00-11:00; 25/05/2026 11:00-13:00; 4/06/2026 9:00-11:00
Nuclear aspects of explosive Astrophysics and Multimessenger Astronomy	Cherubini, S.	11/05/2026, 13/05/2026, 18/05/2026, 20/05/2026, 25/05/2026, 27/05/2026, 3/06/2026
Phase Diagram of Quantum Chromodynamics	Ruggieri M.	4/05/2026 9:00-12:00; 6/05/2026 9:00-12:00; 8/05/2026 9:00-12:00; 11/05/2026 9:00-12:00; 13/05/2026 9:00-11:00.

Physics and Astrophysics of Neutron Stars	Vidana I.	<b>23/04/2026</b> , 11:00-13:00; <b>28/04/2026</b> , 11:00-13:00; <b>30/04/2026</b> , 11:00-13:00; <b>5/05/2026</b> , 11:00-13:00; <b>7/05/2026</b> , 11:00-13:00; <b>12/05/2026</b> , 11:00-13:00; <b>14/05/2026</b> , 11:00-13:00
Quantum dynamics and control of open quantum systems	Paladino, E.	<b>15/09/26</b> 15:00 - 18:00; <b>22/09/26</b> 15:00 - 18:00; <b>29/09/26</b> 15:00 - 18:00 <b>06/10/26</b> 15:00 - 18:00; <b>13/10/26</b> 15:00 - 18:00; <b>20/10/26</b> 15:00 - 18:00
Scanning Probe Microscopies	Ruffino, F.	<b>3/06/2026</b> , 9:00-12:00; <b>5/06/2026</b> , 9:00-12:00; <b>10/06/2026</b> , 9:00-11:00; <b>12/06/2026</b> , 9:00-11:00; <b>17/06/2026</b> , 9:00-11:00; <b>19/06/2026</b> , 9:00-11:00 <b>1/07/2026</b> , 9:00-12:00; <b>8/07/2026</b> , 9:00-11:00
Search of New Physics Beyond the Standard Model in Double Beta Decay	Cappuzzello, F.	<b>12/06/2026</b> , 10:00 - 12:00; <b>16/06/2026</b> , 10:00 - 12:00; <b>19/06/2026</b> , 10:00 - 12:00; <b>23/06/2026</b> 10:00 - 12:00; <b>26/06/2026</b> 10:00 - 12:00; <b>30/06/2026</b> 10:00 - 12:00; <b>3/07/2026</b> 10:00 - 12:00
Selected topics in Quantum Technologies	Falci, G.	<b>21/09/26</b> , 16:00 - 18:00; <b>28/09/26</b> , 15:00 - 18:00; <b>05/10/26</b> , 15:00 - 18:00 <b>12/10/26</b> , 15:00 - 18:00; <b>19/10/26</b> , 15:00 - 18:00
Star-Planet interactions in extrasolar systems	Lanza, A.F.	<b>19/03/2026</b> , 09:00-11:00; <b>20/03/2026</b> , 09:00-11:00; <b>23/03/2026</b> , 09:00-11:00; <b>24/03/2026</b> , 09:00-11:00; <b>30/03/2026</b> , 09:00-11:00; <b>8/04/2026</b> , 09:00-11:00; <b>10/04/2026</b> , 09:00-11:00.
Strong Interactions at Finite Temperature and Density	Greco, V.	<b>14/09/2026</b> 15:00-18:00; <b>16/09/2026</b> 15:00-18:00; <b>21/09/2026</b> 15:00-18:00; <b>23/09/2026</b> 15:00-18:00; <b>5/09/2026</b> 15:00-18:00; <b>7/09/2026</b> 15:00-18:00; <b>12/09/2026</b> 15:00-18:00.
Use of the Geant4 Monte Carlo toolkit for particles transport	Cirrone, P.	<b>6/03/2026</b> ; <b>20/03/2026</b> ; <b>27/03/2026</b> ; <b>10/04/2026</b>