

**«ETTORE MAJORANA» FOUNDATION AND CENTRE FOR SCIENTIFIC CULTURE**  
**INTERNATIONAL SCHOOL OF SUBNUCLEAR PHYSICS**  
 60th Course: NEWS FROM THE FOUR INTERACTIONS

ERICE: 14 – 23 JUNE 2024

**PROVISIONAL DETAILED PROGRAMME**

12 June 2024

Fri 14 Jun	Morning: arrival and registration at the Secretariat of the School									
	<b>LECTURES</b>						<b>SPECIAL SESSIONS FOR NEW TALENTS</b>	<b>DISCUSSION SESSIONS</b>		
	09.30 10.15	10.15 11.00		11.30 12.15	12.15 13.00		16.00 17.45	18.00 – 20.00 Each Discussion Session lasts 30 mn		
Sat 15 Jun	<b>M.C. GONZÁLEZ-GARCÍA</b> <i>Neutrino masses and mixing</i>	<b>S. PASTOR</b> <i>What does cosmology teach us on neutrinos?</i>		<b>D. PERRODIN</b> <i>Nanohertz gravitational wave background</i>	<b>P. GIUBELLINO</b> <i>Highlights from FAIR</i>		<i>Special Sessions for New Talents</i>	ALL MORNING LECTURERS		
Sun 16 Jun	<b>M.C. GONZÁLEZ-GARCÍA</b> <i>Neutrino masses and mixing</i>	<b>B. SCHWINGENHEUER</b> <i>Why it is natural to think neutrinos to be Majorana particles</i>		<b>Y. GROSSMAN</b> <i>News from flavor physics</i>	<b>T. KOBAYASHI</b> <i>Highlights from JPARC</i>		<i>Special Sessions for New Talents</i>	ALL MORNING LECTURERS		
Mon 17 Jun	<b>M. POSPELOV</b> <i>Theoretical approaches to the muon magnetic moment and related topics</i>	<b>K. OLIVE</b> <i>Particle Cosmology</i>		<b>Y. GROSSMAN</b> <i>News from flavor physics</i>	<b>A. ZOCCOLI</b> <i>Highlights from LNGS</i>		<i>Special Sessions for New Talents</i>	ALL MORNING LECTURERS		
Tue 18 Jun	<b>M. POSPELOV</b> <i>Theoretical approaches to the muon magnetic moment and related topics</i>	<b>K. OLIVE</b> <i>Particle Cosmology</i>		<b>L. COVI</b> <i>On the dark side of the Universe - theory</i>	<b>K. SCHWEDA</b> <i>Highlights from ALICE</i>		<i>Special Sessions for New Talents</i>	ALL MORNING LECTURERS		
Wed 19 Jun	<b>A. PAPA</b> <i>Fundamental physics with muons</i>	<b>Z. BERN</b> <i>Scattering amplitudes: Theory and applications</i>		<b>T. POLLMANN</b> <i>Direct search for dark matter</i>	<b>Discussion Sessions</b>		<b>FREE FOR THINKING OR EXCURSION</b>			
Thu 20 Jun	<b>L. COVI</b> <i>On the dark side of the Universe - theory</i>	<b>Z. BERN</b> <i>Scattering amplitudes: Theory and applications</i>		<b>J. HARMS</b> <i>Gravitational waves</i>	<b>E. MEONI</b> <i>Highlights from ATLAS and CMS</i>		<i>Special Sessions for New Talents</i>	ALL MORNING LECTURERS		
Fri 21 Jun	<b>Z. BERN</b> <i>Scattering amplitudes: Theory and applications</i>	<b>Z. CAO</b> <i>Experimental Update on Cosmic Ray Physics</i>		<b>J. HARMS</b> <i>Gravitational waves</i>	<b>V. VAGNONI</b> <i>Highlights from LHCb</i>		<i>Special Sessions for New Talents</i>	<i>Discussion Sessions</i>		
Sat 22 Jun	<b>P. MERTSCH</b> <i>News on theoretical aspects of cosmic rays physics</i>	<b>M. CARENA</b> <i>BSM physics</i>		<b>M. NAKAHATA</b> <i>Highlights from SuperKamiokande and HyperKamiokande</i>	<b>Discussion Sessions</b>		<b>THE BEST NEW TALENTS</b>			
Mon 23 Jun	<b>Departures</b>									
<p><b>Discussion and New Talent's Sessions Organizers:</b> Antonino ZICHICI – Antonio ZOCCOLI – Alessandro BETTINI – Antonio MASIERO - Dieter HAIDT – Christiaan KORTHALS-ALTES  <b>Poster Sessions Organizers:</b> Laura FABBRI</p>										