



EIC Pathfinder Project 101046458

TECHNO-CLS

“Emerging technologies for Crystal-based gamma-ray Light Sources”

Workshop April 09, 2024, Tbilisi, Georgia

<p>09³⁰ – 10⁰⁰</p> <p>10⁰⁰ – 10³⁰</p> <p>10³⁰ – 11⁰⁰</p>	<p>Session I (Chair: Nektarios Papadogiannis)</p> <p>Andrei Korol & <u>Andrey Solov'yov</u>, MBN Research Center, Frankfurt am Main, Germany <i>Horizon Europe EIC-Pathfinder Project TECHNO-CLS: “Emerging technologies for crystal-based gamma-ray light sources”</i></p> <p>Nicola Canale, Istituto Nazionale di Fisica Nucleare, Ferrara, Italy <i>Investigation of the radiation emitted by ultra-relativistic electrons in oriented crystals for Crystal-Light-Sources</i></p> <p>Davide Valzani, University of Padova, Padova, Italy <i>Advances in germanium gamma undulator realization through pulsed laser melting technique</i></p>
<p>11⁰⁰ – 11³⁰</p>	<p>Coffee break</p>
<p>11³⁰ – 12⁰⁰</p> <p>12⁰⁰ – 12³⁰</p> <p>12³⁰ – 13⁰⁰</p>	<p>Session II (Chair: <u>Andrey Solov'yov</u>)</p> <p>Nektarios Papadogiannis, Hellenic Mediterranean University, Rethymno, Greece <i>Ultrafast photoacoustic phenomena in metal/silicon multilayer materials and their application in dynamic acoustic crystalline undulators</i></p> <p>Matthew Dickers, University of Kent, Canterbury, United Kingdom <i>Atomistic modelling of channelling and radiation processes in doped silicon and diamond crystals</i></p> <p>Lorenzo Malagutti, University of Ferrara, Ferrara, Italy <i>Design of a crystalline undulator for TECHNO-CLS based on coactive patterning</i></p>
<p>13⁰⁰ – 13¹⁰</p>	<p>Closing</p>