



# Annual Workshop of Horizon Europe EIC-Pathfinder Project TECHNO-CLS

## giovedì 5 ottobre 2023

### TECHNO-CLS consortium 's talks (09:45 - 17:15)

-Coordinatori: Werner Lauth; Vincenzo Guidi; Andrei Korol; Nigel Mason

time	[id] title	presenter
09:45	[1] Emerging technologies for crystal-based gamma-ray light sources	SOLOV'YOV, Andrey
10:15	[2] Atomistic modelling of electron and positron propagation and radiation emission in oriented bent crystal	KOROL, Andrei
10:45	[3] Channeling experiments with Diamond crystals	LAUTH, Werner
11:05	Coffee break	
11:30	[4] TECHNO-CLS experiment at CERN with 6 GeV electrons	BANDIERA, LAURA
12:00	[5] On the design of a crystalline undulator based on coactive patterning	MAZZOLARI, Andrea
12:30	[6] Status report of the positron beam line	Sig. KLAG, Pascal
12:50	Lunch	
14:30	[7] Pulsed laser melting as a tool for crystal bending in crystalline light source application	DE SALVADOR, Davide
15:00	[8] Radiation characteristics of a four-period diamond undulator at 855 MeV	BACKE, Hartmut
15:20	[9] Progress on the design, development and characterization of acoustically modulated crystalline structures for gamma-ray generation via undulation of ultra-relativistic charged particles	Dr. KALERIS, Konstantinos
15:50	Coffee break	
16:15	[10] New design for a periodic undulator with boron-doped diamond based	Dr. TRAN CALISTE, Thu Nhi
16:45	[11] Effect of dopant concentration on Si-Ge Crystalline structure: A molecular dynamics study	Sig. DICKERS, Matthew