



# MMCP2024

## Monday 21 October 2024

### Methods and numerical algorithms in high-energy physics - S3 (16:00 - 18:00)

time	[id] title	presenter
16:00	[55] Three-Body Problem and Precision Physics	KOROBOV, Vladimir
16:15	[56] Some new algorithms for Monte-Carlo event generators	DYDYSHKA, Yahor
16:30	[57] Polarized photon-photon collisions in ReneSANCe Monte Carlo generator	SADYKOV, Renat
16:45	[58] ReneSANCe event generator for precise luminosity determination	YERMOLCHYK, Vitaly
17:00	[59] Two-loop corrections to $2\gamma \rightarrow 2\gamma$ process	BONDARENKO, Serge
17:15	[60] Iterative solution of DGLAP equations in QED	ARBUZOV, Andrej
17:30	[61] Radiative corrections to $W^{\pm}$ boson hadroproduction with longitudinal polarization of initial states	KAMPF, Alexey
17:45	[62] Plasma Diagnostics in High Magnetic Fields	OGANESYAN, Koryun

# Thursday 24 October 2024

## Methods and numerical algorithms in high-energy physics - S3 (14:00 - 15:30)

time	[id] title	presenter
14:00	[127] Nonrelativistic approximation in the theory of a spin 2 particle with anomalous magnetic moment	RED'KOV, Viktor
14:15	[129] Modified transport approach for description of fragmentation reactions in heavy-ion collisions	MIKHAILOVA, Tatiana
14:30	[131] Reconstruction of Neutron Star Mass Distribution from Cooling Evolution	GRIGORIAN, Hovik
14:45	[132] Numerical Modeling of Thermodynamic Parameters for Hot Neutron Star Matter in Neutrino-Trapped Regime	ALAVERYAN, Grigor
15:00	[136] Numerical modeling of gamma sources based on nonlinear Compton Scattering	RYKOVANOV, Sergey

## Methods and numerical algorithms in high-energy physics - S3 (16:00 - 17:30)

time	[id] title	presenter
16:00	[110] On precursors of topological phase transitions of interacting particles confined in a disk potential	NIKONOV, Eduard
16:15	[133] Geant4 hadronic models	UZHINSKY, Vladimir
16:30	[134] Coupling of UrQMD 3.4 and SMM models for simulation of neutron and nuclear fragment productions in nucleus-nucleus interactions	GALOYAN, Aida
16:45	[53] Rule of the Second normal form	DIMITROV, Vladimir