AINP working group: Bayesian Inference for Quantum Correlation Functions

Wednesday, 4 March, 14:00 - 17:30

14:00 Nobuo Sato (JLab)
   "Quantum correlations functions overview"
14:15 Alberto Accardi (Hampton U./JLab)
   "Measuring the unobservable: quark and gluon distributions in the proton"
14:30 Juan Rojo (Nikhef)
   "Artificial intelligence to map the proton structure"
14:45 Andrea Signori (Pavia U./JLab)
   "Structure of TMD observables"
15:00 Christian Weiss (JLab)
   "Generalized parton distributions overview"
15:15 Break

15:30 Carlota Andres (JLab)
   "JAM multi-step strategy"
15:45 Yiyu Zhou (William & Mary)
   "AI for jets in JAM"
16:00 Patrick Barry (NCSU)
   "Pion PDFs and challenges in implementing threshold resummation"
16:15 Chris Cocuzza (Temple U.)
   "Machine learning for global fits"
16:30 Alexei Prokudin (PSU Berks)
   "The origin of spin asymmetries"
16:45

17:00 Simonetta Liuti (U. Virginia)
   "ML-based analysis of deeply-virtual exclusive processes"
17:15

17:30 Adjourn
Thursday, 5 March, 14:00 - 17:30

14:00 Nobuo Sato (JLab)
   “Universal Monte Carlo event generator”
14:15 Tianbo Liu (JLab)
   “GAN from pseudo data to real data: inverse problem for detector effects”
14:30 Luisa Valesco (U. Dallas)
   “GANs for ETHER”
14:45 Yaohang Li (ODU)
   “FAT-GAN architecture for simulation of electron-proton scattering events”
15:00 Yasir Alanazi (ODU)
   “CNN-GAN for physical event generation”
15:15 Break

15:30 Nobuo Sato (JLab)
   “Next generation of QCD global analysis tools”
15:45 Manal Alemeen (ODU)
   “Machine learning prototypes to solve the inverse problem”
16:00 Herambeshwar Pendyala (ODU)
   “Towards an interactive web based global fitter”
16:15 Break

16:30 Jake Ethier (Nikhef)
   “Nuclear PDFs with neural nets”
16:45 Kostas Orginos (William & Mary/JLab)
   “PDFs from the lattice”
17:00 Jake Bringewatt (U. Maryland)
   “Global analysis with lattice data”
17:15 Discussion

17:30 Adjourn