Deep Processes Working Group Report

CLAS Collaboration Meeting
Jefferson Lab, 20th June2019

Ad Hoc Reviews

Analysis	Data	Lead Author	In progress
Exploring the structure of the proton via semi-inclusive pion electro-production	**e1f**	**N. Harrison** **K. Joo**	2nd round done on Jan 19

PAC Reviews

Analysis	Data	Lead Author	In progress
Tagged Neutron DVCS with BONuS12 in CLAS12	**RGF**	**M. Hattawy**	Submitted to PAC
Exclusive photo-production of Photon-Meson Pair at Large Invariant Mass	**RGB++**	**D. Sokhan**	Anticipated by CAA

Analysis Reviews

Analysis	Data	Author	In progress
Extraction of $A_{LU}^{\sin\phi}$ moments from hard exclusive π^+ off the unpolarized hydrogen target in a wide range of kinematics	**e1f**	**S. Diehl**	3nd round done on Jun 19
First Observations of Beam Spin Asymmetries for K+	**e1f**	**D. Riser**	1st round done on Sep 18
Di-hadron beam spin asymmetry in SIDIS electro production	**eg1-dvcs**	**M. Mirazita** **O. Soto**	Analysis under revision
Beam asymmetries in exclusive π^+ electro production for W> 1.7 GeV from e16	**e16**	**P. Bosted** **K. Park**	Extended scope
Semi-inclusive pion production	**e16**	**M. Osipenko**	Working on a better alignment

Analysis Reviews

Analysis	Data	Author	In progress
Deep-virtual production of the ρ^+ meson off the proton	**e1-dvcs**	**A. Fradi**	Ahmed willing to continue
Exclusive electro-production of the f0(980) and f2(1270) on the proton with CLAS	**e1f**	**B. Garillon** **S. Niccolai**	Brice busy with other project
Time-like Compton scattering	**g12**	**I. Abayrak**	Last record 2015

CAA Reviews

Analysis	Data	Author	In progress
Observation of transverse polarization of Lambda hyperons in the current frgamentation from unpolarized targets	**RGA**	**A. Vossen** **C. Dilks**	1st round done on Oct 18
Boer-Mulders effect and helicity dependent fragmentation functions in hadron pair production off unpolarized targets	**RGA**	**A. Vossen** **C. Dilks**	1st round done on Oct 18

DPWG Meeting, 20th March 2019

DPWG session (8:30 – 12:30):

SIDIS observables

Hard Exclusive observables

Common WG session (14:30 – 18:00):

Selected topics

Common analysis studies and tools