

meson structure	Tanja Horn	Produce kinematics plots/coverages for physics objects Fast simulations ready with event generator (but bug) process (most?) demanding for detector after FFQs and ZDC? Angular resolution and hadronic calorimetry requirements
tagging on light nuclei	d breakup diffractive: Kong Tu d DIS: Dmitri Romanov 3He DIS: Ivica Friscic	Diffractive study almost complete; full simulations in progress Assumes current current far forward acceptance and p_T resolution
QE SRC 2N knockout	Florian Hauenstein	e-d, e-He, e-C kinematics mapped FSI studies in progress
elastic e-p; e-d	Barak Schmookler	e-p kinematics mapped (separation from inelastic?), ed in progress e-p double spin asymm. probably not feasible
diffractive VM production (p/A ; coh/incoh)	Spencer Klein	Photo- and electroproduction of J/Psi and Y Detector requirement on detection of 3 Y states Separation of coherent/incoherent?
diffractive spectroscopy	Spencer Klein	
diffractive inclusive DIS (p/A)	Anna Stasto	Disentangling pomeron/reggeon Different beam energies -> F_L diffractive Range in t , x_p -> roman pots angular acceptance // size of rapidity gap
diffractive jet production (p/A)	Zhengqiao Zhang , Magno Machado Michael Klasen , Vadim Guzey	eA diffractive gluon jet (needs simulations) ep/eA diffractive dijet; ep simulations ongoing
u-channel meson prod.	Bill Li	Kinematics mapping in progress Simulations planned

Physics Object	Processes	Values
electron	Small angles: diffractive; elastic	elastic e-p mapped
p/n (+Lambda/Sigma)	Far forward: Exclusive, diffractive on p -> Tagging in light nuclei -> QE 2N knockout Sullivan process (pion,kaon)	pT [0,2 GeV] theta [0,0.1 rad] pT [0,500 MeV] theta [0, 50mrad]
d, ³ He	Far forward: coherent on light nuclei	pT [0,200 MeV] theta [0, 5mrad]
Nuclear breakup	Far forward: coh/incoh separation Multiple n	pT [0,500 MeV] theta?
gamma	Far forward: incoherent nuclear excitation	
jets	Diffractive (di)jet production	
J/Psi; psi',Y	VM production	Electrons, muons with pseudorapidity <4
Resonances	Diffractive resonance production	
Pion, kaon	Elastic Sullivan process	
Polarized d		"Magic" beam energies

Pavia Requests

- Joint meeting with Exclusive & Far forward detector WGs again