

RBRC Workshop
Synergies of pp and pA Collisions with an Electron-Ion Collider

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Monday 26th of June 2017		
Applications and Limitations of the Factorization Paradigm		
8:30 - 9:00 REGISTRATION		
9:00 - 9:15	Workshop Organizers	Welcome and Goals of Workshop
PDFs, TMDs, and FFs I		
Chair: Matt Sievert		
9:15 - 9:50	Emanuele Nocera	<i>Achievements and open issues in the determination of parton distributions and fragmentation functions</i>
9:50 - 10:25	Rodolfo Sassot	<i>Fragmentation Functions for the EIC</i>
10:25 - 10:50		
<i>Coffee Break (INCLUDED WITH ATTENDANCE)</i>		
PDFs, TMDs, and FFs II		
Chair: Ralf Seidl		
10:50 - 11:25	Daniel Pitonyak	<i>Connections between TMD and collinear factorization for transverse single-spin asymmetries</i>
11:25 - 12:00	Hannes Jung	<i>TMDs from parton branching method at LO and NLO and first applications</i>
12:00 - 1:30		
<i>Lunch Break (ON YOUR OWN, SELF-PAY)</i>		
Diffraction		
Chair: Markus Diehl		
1:30 - 2:05	Anna Stasto	<i>Theory of diffraction: dipole model vs. diffractive PDFs</i>
2:05 - 2:40	Bjoern Schenke	<i>Evidence of proton shape fluctuations from diffraction</i>
2:40 - 3:15	Yong Zhao	<i>Measuring the gluon orbital angular momentum at the EIC</i>
3:15 - 3:50	Mark Baker	<i>eA vs pA: Similarities and Differences, An Experimentalist's Perspective</i>
3:50 - 4:15		
<i>Coffee Break (INCLUDED WITH ATTENDANCE)</i>		
Factorization and its Breaking		
Chair: Elke Aschenauer		
4:15 - 4:50	Nobuo Sato	<i>Recent progress in understanding hadronization in semi-inclusive observables</i>
4:50 - 5:25	Daniel Boer	<i>Process dependence of TMDs and factorization (breaking)</i>
5:25 - 6:00	Jo Gaunt	<i>Factorisation issues in colour singlet production at pp colliders</i>
6:00 - 6:30 Discussion: Where are the opportunities and loopholes in the factorization paradigm?		
7:00 NO HOST DINNER location announced in the morning (optional, off-site, self-pay)		

Tuesday 27th of June 2016		
Measurements, Observables, and New Opportunities		
Experimental Measurements I		
9:00 - 9:35	Elke-Caroline Aschenauer	<i>Cold QCD Physics@STAR: A Gaze into EIC</i>
9:35 - 10:10	Alexander Bazilevsky	<i>PHENIX pp&pA: Results and Expectations</i>
10:10 - 10:35	Coffee Break (INCLUDED WITH ATTENDANCE)	
Experimental Measurements II		
10:35 - 11:10	Nils Feege	<i>sPHENIX with Forward Instrumentation at RHIC: What Can We Learn with It?</i>
11:10 - 11:45	Tatsuya Chujo	<i>Physics potential of a forward upgrade in ALICE; direct photons and CGC, initial conditions</i>
11:45 - 1:30	Lunch Break (ON YOUR OWN, SELF-PAY)	
New and Critical Observables I		
1:30 - 2:05	Brian Cole	<i>Photo-nuclear jet production in Pb+Pb collisions at the LHC</i>
2:05 - 2:40	Robert Ciesielski	<i>Recent CMS and CMS-TOTEM results on forward physics</i>
2:40 - 3:15	Daniel Tapia Takaki	<i>UPC at CMS and highlights from the UPC INT workshop</i>
3:15 - 3:40	Coffee Break (INCLUDED WITH ATTENDANCE)	
New and Critical Observables II		
3:40 - 4:15	Vadim Guzey	<i>Nuclear gluon distributions at small-x from charmonium and dijet photoproduction on nuclei at the LHC</i>
4:15 - 4:50	Piotr Kotko	<i>Studying saturation in dijet production in pA and UPC at LHC</i>
4:50 - 5:25	Zhong-Bo Kang	<i>Jets and their substructures</i>
5:25 - 6:00	Jianwei Qiu	<i>J/Psi production: challenges and opportunities in pp, pA, ep, eA</i>
6:00 - 6:30	Discussion: What advances are needed to take advantage of these observables?	
7:00	NO HOST DINNER location announced in the morning (optional, off-site, self-pay)	

Wednesday 28th of June 2016		
Small x, Saturation, and the Bridge to EIC		
Saturation in eA and pA I		
9:00 - 9:35	Raju Venugopalan	<i>Parton model framework for azimuthal angle cumulants in pA collisions</i>
9:35 - 10:10	Andrey Tarasov	<i>Saturation: Recent Developments, New Ideas, and Measurements</i>
10:10 - 10:35	Coffee Break (INCLUDED WITH ATTENDANCE)	
Saturation in eA and pA II		
10:35 - 11:10	Renaud Boussarie	<i>Exclusive diffractive processes with saturation at NLO accuracy</i>
11:10 - 11:45	Bertrand Ducloué	<i>Heavy flavor and electromagnetic probes of saturation in pA collisions at the LHC</i>
11:45 - 12:20	Pia Zurita	<i>nPDFs @ current and future colliders</i>
12:20 - 2:05	Lunch Break (ON YOUR OWN, SELF-PAY)	
Small x, Beyond Saturation		
2:05 - 2:40	Vladimir Skokov	<i>Azimuthal anisotropy in small-x DIS dijet production</i>
2:40 - 3:15	Yuri Kovchegov	<i>Small-x Asymptotics of the Gluon Helicity Distribution</i>
3:15 - 3:50	Martin Hentschinski	<i>3 parton production in DIS at small x</i>
3:50 - 4:15	Coffee Break (INCLUDED WITH ATTENDANCE)	
4:15 - 4:45	Discussion: What are the best ways to test small-x physics at RHIC / LHC / EIC?	
Summary of the Workshop		
4:45 - 5:15	Organizers	Summary: needs in theory and experimental program to answer critical questions
5:15 - 5:45	Discussion: What are the most effective uses of pp / pA run time to prepare for an EIC?	
7:00	NO HOST DINNER location announced in the morning (optional, off-site, self-pay)	