

# Probing QCD at the high energy frontier

ECT\* workshop program, 21–25 May 2018

## Monday

09:00–09:45 **Registration**

09:45–10:00 **ECT\* Director's Welcome – Prof. J. Wambach**

35+10mins

10:00–10:45 Dipole factorization for DIS at NLO: Towards the full mass renormalized cross section **Speaker: Paatelainen**

10:45–11:15 **Coffee**

11:15–12:00 Confronting JIMWLK evolution with HERA data **Speaker: Heikki Mäntysaari**

12:00–13:30 **Lunch**

35+10mins

13:30–14:15 Reweighting the JIMWLK ensemble and biased event samples **Speaker: Adrian Dumitru**

14:15–15:00 High energy Operator Product Expansion with sub-eikonal spin corrections **Speaker: Giovanni Chirilli**

15:00–15:30 **Coffee**

15:30–16:00 Vector meson photoproduction within the energy-dependent hot-spot model **Speaker: Jan Cepila**

16:00–16:30 The Initial Correlations of the Glasma Energy-Momentum Tensor **Speaker: P.G. Rodríguez**

16:30–17:00 Probing of strong interactions and hadron matter in hadron and heavy ion collisions **Speaker: Mikhail Barabanov**

17:00–17:30 **Discussion**

## Tuesday

09:15–10:00 Experimental results **Speaker: Michael Winn**

35+10mins

10:00–10:30 **Coffee**

10:30–11:15 Exclusive diffractive processes in the CGC **Speaker: Renaud Boussarie**

11:15–12:00 Saturation fronts in resummed high energy evolution **Speaker: Dionysis Triantafyllopoulos**

12:00–13:30 **Lunch**

35+10mins

13:30–14:15 High-energy factorization beyond leading order **Speaker: Edmond Iancu**

14:15–15:00 Forward particle production in proton-nucleus collisions at NLO: solving the running-coupling puzzle **Speaker: Bertand Ducloue**

15:00–15:30 **Coffee**

15:30–16:15 Heavy Flavor and Quarkonium production in p+p and p+A collisions **Speaker: Kazuhiro Watanabe**

16:15–17:00 **Discussion**

## Wednesday

09:15–10:00	Aspects of particle correlations	Speaker: Alex Kovner
10:00–10:30	<b>Coffee</b>	
10:30–11:15	Bose enhancement in the dilute-dense limit	Speaker: Douglas Wertepny
11:15–12:00	Quantum interference in double and triple inclusive gluon production	Speaker: Tolga Altinoluk
12:00–13:30	<b>Lunch</b>	
13:30–14:15	Multiparticle correlations and collectivity from the initial state	Speaker: Mark Mace
14:15–15:00	Dihadron angular correlations	Speaker: Shu-yi Wei
15:00–15:30	<b>Coffee</b>	
15:30–16:15	Multi particle production in proton-nucleus collisions at high-energy	Speaker: Yair Mulian
16:15–17:00	<b>Discussion</b>	

## Thursday

		35+10mins
09:15–10:00	Probing the time structure of the QGP	Speaker: Liliana Apolinario
10:00–10:30	<b>Coffee</b>	
10:30–11:15	Forward charm production in proton-(proton)nucleus collisions and prompt neutrino production	Speaker: Anna Stasto
11:15–12:00	Gluon TMDs from pA -> dijet+photon in the CGC	Speaker: Pieter Tael
12:00–13:30	<b>Lunch</b>	
		35+10mins
13:30–14:00	Towards TMD splitting functions and the corresponding system of evolution equation	Speaker: Krzysztof Kutak
14:00–14:45	Dilute-dense collisions at high energies: Lipatov's high energy effective action and the Color Glass Condensate formalism	Speaker: Martin Hentschinski
14:45–15:15	<b>Coffee</b>	
15:15–16:00	Three plays in the multi-Regge limit: jet production, tampering with the infrared and complexity in the Odderon	Speaker: Agustin Sabio Vera
16:00–16:30	Unequal rapidity correlators in the dilute limit of JIMWLK	Speaker: Andrecia Ramnath
16:30–17:15	<b>Discussion</b>	

## Friday

		35+10mins
10:00–10:45	The Fragmentation Region at Asymptotic Energy	Speaker: Larry McLerran
10:45–11:15	<b>Coffee</b>	
11:15–12:00	Entropy production and its time evolution in High Energy QCD	Speaker: Mirko Serino
12:00–12:05	Conclusion	
12:05–13:35	<b>Lunch</b>	