

## Session Program

24-30 Sept 2022



## Diffraction and Low-x 2022

***Low x, PDFs and hadronic final states***

Corigliano Calabro, Italy  
BV Airone Resort

# Monday 26 September

14:30

## Low $x$ , PDFs and hadronic final states

**Session** | **Location:** Corigliano Calabro, Italy, BV Airone Resort

14:30–14:50 **New constraints on PDFs with CMS data**

**Speaker**

Luis Alcerro Alcerro

14:50–15:10

**Determination of proton parton distribution functions using ATLAS data**

**Speaker**

Amanda Sarkar

15:10–15:30 **Small- $x$  resummation in PDF fits and future prospects**

**Speaker**

Marco Bonvini

15:30–15:50 **News from NNPDF**

**Speakers**

Z.D. Kassabov-Zaharieva, Zahari Dimitrov Kassabov

15:50–16:10

**TMD gluon density at low  $x$  and soft and hard processes at LHC energies**

**Speaker**

Gennady Lykasov

16:10

16:40

## Low $x$ , PDFs and hadronic final states

**Session** | **Location:** Corigliano Calabro, Italy, BV Airone Resort

16:40–17:00

**Small- $x$  resummation in coefficient function for differential heavy-quarks production and next-to-leading logarithms**

**Speakers**

Federico Silveti, Federico Silveti

17:00–17:20

**An interplay of small- and large- $x$  effects in the QCD predictions for prompt atmospheric neutrino flux at IceCube**

**Speaker**

Dr Rafal Maciula

17:20–17:40 **Pseudo- and quasi-PDFs in the BFKL approximation**

**Speakers**

Giovanni Antonio Chirilli, Giovanni Antonio Chirilli

17:40–18:00

**New developments in  $N=2$  supersymmetric gauge theories: integrability, black holes**

**Speaker**

Daniele Gregori

18:00–19:10 **Discussion session: PDFs, Low x**

**Speakers**

Amanda Sarkar, Cristian Baldenegro Barrera, Marco Bonvini, Prof. Pavel Nadolsky

19:30

## Tuesday 27 September

08:30

### Low x, PDFs and hadronic final states

**Session** | **Location:** Corigliano Calabro, Italy, BV Airone Resort

08:30–08:50

#### Measurement of mass dependence of the transverse momentum of lepton pairs in Drell-Yan production in proton-proton collisions at $\sqrt{s} = 13$ TeV

**Speaker**

Kyeongpil Lee

08:50–09:10

#### Measurement of the cross-section ratio $\sigma(\psi(2S))/\sigma(J/\psi(1S))$ in exclusive photoproduction at HERA

**Speaker**

Grzegorz Grzelak

09:10–09:30

#### Helix string fragmentation and charged particle correlations with ATLAS

**Speaker**

Sarka Todorova

09:30–09:50

#### Jets separated by a large pseudorapidity gap at the Tevatron and at the LHC

**Speaker**

Christophe Royon

09:50–10:10

#### Impact of jet-production data on the next-to-next-to-leading-order determination of HERAPDF2.0 parton distributions

**Speaker**

Florian Lorkowski

10:10

10:40

### Low x, PDFs and hadronic final states

**Session** | **Location:** Corigliano Calabro, Italy, BV Airone Resort

10:40–11:00

#### Probing low-x phenomena at LHCb

**Speaker**

Murilo Santana Rangel

11:00–11:20

#### Measurement and QCD analysis of inclusive jet production in deep inelastic scattering at HERA

**Speaker**

Florian Lorkowski

11:20–11:40

#### Single, double and central diffractive dissociation of protons at high energies

**Speaker**

Laszlo Jenkovszky

11:40-12:00

**Higher-point functions in N=4 SYM from an integrable system**

**Speaker**

Burkhard Eden

12:00-13:00

**Discussion session: PDFs**

**Speakers**

Amanda Sarkar, Cristian Baldenegro Barrera, Marco Bonvini, Prof. Pavel Nadolsky

13:00