

Session Program

2-3 Dec 2024

PDF4LHC 2024 meeting

New ideas

CERN, 4/S-030

Monday 2 December

16:35

New ideas

Session | Location: CERN, 4/S-030

16:35–16:55 **NNLO residual PDFs for massive VFN schemes at the LHC**

Speaker

Marco Guzzi

16:55–17:15 **Recent developments in the machine learning modelling of PDFs**

Speaker

Dr TIMOTHY J HOBBS

17:15–17:35 **MCMC for uncertainties**

Speaker

Aleksander Kusina

17:40

Tuesday 3 December

09:00

New ideas: New ideas: closure, tolerance, uncertainties

Session | Location: CERN, 4/S-030

09:00–09:20 **Bayesian studies of the MC replica method**

Speakers

James Moore, James Moore

09:20–09:40 **Bayesian combination and determination of PDFs**

Speaker

Mark Costantini

09:40–10:00 **MSHT: closure tests and comparison to the neural net approach**

Speaker

Dr Lucian Alexander Harland-Lang

10:00–10:20 **Closure tests with inconsistent data**

Speaker

Stefano Forte

10:20–10:45 **Discussion**

10:45–11:05 **Uncertainties on uncertainties**

Speaker

Matthew Reader

11:05–11:25 **Coffee**

11:25–11:45

Classification and combination of PDFs using polynomial approximators

Speakers

Aurore Courtoy, Aurore Courtoy

11:45–12:05 **The Gaussian Mixture Model**

Speaker

Kirtimaan Ajaykant Mohan

12:05–12:25 **Gaussian processes**

Speaker

Tommaso Giani

12:25–12:45 **Neural nets**

Speakers

Luigi Del Debbio, Luigi Del Debbio

12:45–13:10 **Discussion**

13:10