THEORY AND METHODOLOGY: NEW DEVELOPMENTS

THE NNPDF COLLABORATION & N3PDF TEAM

AMSTERDAM-BARCELONA-CAMBRIDGE-EDINBURGH-MILAN-NIKHEF

PDF4LHC MEETING

CERN, MARCH 22, 2021

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SUMMARY

THEORY DEVELOPMENTS

- ELECTROWEAK CORRECTIONS **CHRISTOPHER SCHWAN** (MILAN)
- NUCLEAR AND DEUTERON CORRECTIONS **ROSALYN PEARSON** (EDINBURGH)

PDF PROPERTIES AND THEIR IMPLEMENTATION

- PDF POSITIVITY (TH) **FELIX HEKHORN** (MILAN)
- PDF BASIS, POSITIVITY (PH), INTEGRABILITY **TOMMASO GIANI** (NIKHEF)

PDF DETERMINATION METHODOLOGY

- HYPEROPTIMIZATION AND K-FOLDING **JUAN CRUZ-MARTINEZ** (MILAN)
- METHODOLOGY CORRELATIONS **ROY STEGEMAN** (MILAN)

PDF VALIDATION

- CLOSURE TESTS **MICHAEL WILSON** (EDINBURGH)
- FUTURE TESTS **JUAN CRUZ-MARTINEZ** (MILAN)

DATASET SELECTION

- WEIGHTED PDFS **ZAHARI KASSABOV** (CAMBRIDGE)

PDF DELIVERY

- PDF REPLICA COMPRESSION **TANJONA RABEMANANJARA** (MILAN)

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