

# Physics program (Daniel, Max and Néstor): Thursday morning

1. Registration from 8.30 to 9.30.
2. Session I (1.5 h):
  - 25' Introduction: Max Klein
  - 20' LHeC Parameters, Operation, Cost: Oliver Brüning
  - 20' Low x theory and review (saturation studies in DGLAP/resum. from Juan Rojo?): Anna Stasto
  - 25' LHeC PDFs (and  $\alpha_s$ ): Claire Gwenlan

Coffee break from 11.00 to 11.20
3. Session II (1h40m):
  - 18' PDFs (+saturation?): Juan Rojo
  - 12' CC cham: Oleksandr Zenaiev
  - 20' Top overview: Hao Sun
  - 15' EW overview: Daniel Britzger/Hubert Spiesberger
  - 20' MC + TH challenges \_and\_ impact of LHeC for precision phenomenology at HL-LHC: S. Höche
  - 15' Small x dynamics, TMDs: Hannes Jung

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5. Lunch (1 h)

6. Session III (2 h): ERL + IR

7. Coffee break from 16.00 to 16.30

8. Session IV (2h35m):

- Higgs (1 h.): ep (Uta Klein), ep+pp (Jorge de Blas), 1 talk on theory uncertainties on Higgs in pp (exp. or thy. speaker to be searched)
- BSM (40'): ep (Oliver Fischer), ep+pp (Monica D'Onofrio)
- Electroweak (35'): 15' MW, sin<sup>2</sup>T in pp with ep (Ludovica Aperio Bella), 20' precision pp physics and ep input (Maarten Boonekamp)
- 20' eA+AA: Brian Cole

5. Dinner at 19.30

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9. Session V (2 h): ERL + PERLE

10. Coffee break from 11.00 to 11.30

11. Session VI (1.5h)

- Detector 30' (Peter Kostka) + 10' discussion
- 20' Diffraction plus DVCS: Paul Newman
- eA (30'): nPDFs (Hannu Paukkunen, 15'), eA (Nestor, 15')

12. Lunch (1 h)

13. Session VII (1.5 h)

- FCC from 20 to 50 TeV, pp and ep (Frank Zimmermann) 20'
- Civil engineering, LHeC and FCC-eh (Alexandra Tudora) 15'
- Physics with FCC-eh at 20 and 50 TeV Ep (Christian Schwanenberger) 25'
- 15' Next steps Max Klein
- 15' Outlook Herwig Schopper