

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
 - We continue (45 m): PDFs
 - 45' PDFs: LHeC PDFs (C. Gwenlan), **NNPDF and others (J. Rojo), charm in CC, alpha_s,...**
3. Coffee break from 11.00 to 11.30
4. Session II (1.5 h):
 - 20' Low x theory and review (saturation studies in DGLAP/resum. from Juan Rojo?): Anna Stasto 20'
 - 20' Diffraction plus DVCS: Paul Newman
 - 20' Top overview: Hao Sun
 - 15' EW overview: Daniel Britzger
 - **MC + TH challenges _and_ impact of LHeC for precision phenomenology at HL-LHC by Höche?**
 - **aTGC ep analysis, Orhan?**
 - **Small x dynamics, TMDs (Hannes Jung?)**

Observations:

Registration could open at 8.30?

Slight reschedule of session I - II

Time is short.

How to engage non core LHeC colleagues?

Looking for a suitable theory talk, none so far (maybe the thy uncertainties on Higgs and the Need for precision alphas – Giulia Zanderighi?)

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Want to post programme on indico later, not now

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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 (2.5 h):

- 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 (45 m): ep (Oliver Fischer), ep+pp (Monica D'Onofrio)
- Electroweak : 15' MW, sin²T in pp with ep (Ludovica Aperio Bella), 20' precision pp physics and ep input (Maarten Boonekamp)

9. 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
- eA: nPDFs (Hannu Paukkunen, 15'), eA (Nestor, 15'), eA+AA (20', Brian Cole)

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