



LHCphenOnet



# UK node

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LHCphenOnet



# UK node



## Liverpool

Andreas Vogt

Nicola Lo Presti

## Oxford

Giulia Zanderighi

Tom Melia

Raoul Rontsch

## Durham

Xuan Chen (ESR)

Marek Schoenherr (ESR)

\*Tomas Jezo (ESR)

Jeppe Andersen

Nigel Glover

Daniel Maître

(Adrian Signer)

Michael Spannowsky

Claude Duhr

Christoph Englert

Gionata Luisoni

Joao Pires

Emanuele Re

## Cambridge

James Stirling

Robert Thorne

Brian Webber



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# Training at the IPPP

- About 15 topical workshops organised per year
- Schools
  - YETI (young experimenters and theorists institute)
- Seminar series
  - One internal where ERS and ER present their work
- Research environment (~60 members)

# Current Fellows

- Marek Schönherr
  - 1 year ESR since October 2011
  - Working on Monte Carlo simulations (WP2/WP3, M2.1/M3.4)
- Xuan Chen
  - 1 year ESR since December 2011
  - Working on Higgs+multijet amplitudes (WP1/WP3, M1.4/M3.3)

# Future fellows

- Tomas Jezo
  - Starting an 1-year ESR in October
  - Will work on resummation for Higgs boson production (WP1 and WP3 , M1.3, M3.2)
  - Already participated to the LHCphenonet Winter School in Ascona
- 1 ER and one ESR to be hired for next year
  - Will work on WP1 and WP3

# Research Highlights

- Event simulation
  - Single top t-channel process with POWHEG [LPN12-084]
  - Systematic improvement of QCD parton showers [LPN12-045]
  - MINLO: Multi-scale improved NLO [LPN12-059]
- Precision
  - NLO 4 Jets production at the LHC (also with a Z boson) [LPN12-063, LPN12-024]



# Research Highlights

- Higgs
  - NLL+NNLO predictions for jet veto efficiencies in Higgs-boson production [LPN12-043]
  - Report of the LHC Higgs Cross Section Working Group [LPN12-007]
  - Higgs and Z-boson production with a jet veto [LPN12-061]

# Links to other node

- Visits
  - James Currie and Nigel Glover visited the Zürich node
- Positions
  - James Currie will start as ER in Zürich in October
  - Emanuele Re goes from Durham to Oxford
  - Joao Pires went from Durham to Zürich
  - Claude Duhr went from Durham to Zürich (and will go back to Durham)



# Annual meeting

- The UK node organised the LHCphenonet annual meeting
  - 51 participants
  - 37 presentations





# Annual meeting

- The UK node organised the LHCphenonet annual meeting
  - Outreach presentation “A tunnel to the beginning of time” for school children
  - Followed by a session of informal discussions

