

MCnetITN3

Overview, focussing on changes
relative to MCnetITN

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MCnetITN3

- **Funded for four years**
 - April 1st 2017 – March 31st 2021
- **540 student months**
 - 11 x 36-month PhDs (vs 6PhDs + 8RAs)
 - 144 short-term student-months (vs 142)
- **€972,000 research, training & networking**
 - 4 schools (+ 2 overseas)
 - 8 meetings
 - 4 training events
 - Training + travel + visitors + secondments



MCnetITN3

- **Beneficiaries:**
 - Manchester, Durham, Glasgow, UCL
 - Göttingen, Karlsruhe, Louvain, Lund
- **Academic Partners:**
 - CERN, Heidelberg, Monash, SLAC
+ Fermilab
- **Non-Academic Partners:**
 - blue yonder, d-fine, IBA, B12



MCnetITN3

- **Projects:**
 - Herwig
 - Pythia
 - Sherpa
 - Madgraph
 - Plugin
 - Ariadne/DIPSY & HEJ
 - CEDAR
 - Rivet, Professor, hepforge, HEPDATA, CONTUR
 - LHAPDF, HepMC



MCnetITN3

- Schools:
 - 2017 Lund, July 3rd – 7th
 - 2018 Prato, Tuscany (Monash), July 23rd – 27th
 - 2019 UCLondon
 - 2020 Karlsruhe
 - + 2 outside Europe (USA + Far East?)
 - + Scientific Computing School



Secondments

- Non-academic secondment of long-term PhD students
 - 11 students, normally 3 months in their second year (September 2018–August 2019)
- Academic secondment of long-term PhD students
 - 11 students, normally 9 months in their third year (September 2019–August 2020)
 - including to Monash & SLAC (non-EU)



Future Directions

- The individual projects have clearly-defined priorities and plans
- Common themes
 - Further precision (NNLO inclusive, NLO multi-jet)
 - Quantification of precision
 - EW corrections / multi-EW boson emission
 - further improvements to BSM simulation
- Opportunities for inter-project collaboration...