

Workshop on Particle Physics and Cosmology TOOLS
September 9 - 14, 2017

Saturday 9th of September

Arrival Day/Registration

Sunday 10th of September

11:00-11:15	F. Boudjema (LAPTh, Annecy)	Welcome - presentation
11:15 - 12:15	P. Richardson (CERN & IPPP, Durham University)	Collider tools
12:15 - 13:15	G. Luisoni (CERN)	N(N)LO calculations
13:15 - 16:00	Lunch break	
16:00 - 16:30	M. Schoenherr (Universitaet Zuerich (CH))	Parton showers matching / merging
16:30 - 17:00	G. Soyez (IPhT, CEA Saclay)	Jet physics and boosted objects: Theory
17:30 - 18:00	Coffee Break	
18:00 - 19:00	G. Soyez (IPhT, CEA Saclay)	Hands on collider tools - jets and boosted objects
19:00 - 20:00	A. Buckley (Glasgow Uni.)	Hands on collider tools - Rivet

Monday 11th of September

9:00 - 09:45	G. Belanger	Overview Talk: Dark Matter tools
9:45 - 10:30	P. Gondolo (Utah Uni.)	Relic density calculation
10:30-11:00	Coffee break	
11:00 - 11:45	R. Catena (Chalmers Univ.)	Direct detection calculations
11:45 - 12:30	M. Cirelli (CNRS LPTHE Jussieu)	Indirect Detection
13:15 - 16:00	Lunch break	
16:00 - 17:30	J. Edsjo (Stockholm University)	Hands on dark matter codes - DarkSUSY
17:30-18:00	Coffee break	
18:00 - 19:30	A. Pukhov (SINP, MSU)	Hands on dark matter codes - MicrOMEGAs

Tuesday 12th of September

9:00 – 09:45	J. Butterworth (University College London)	Collider codes - the experimentalist standpoin
9:45 – 10:30	B. Fuks (LPTHE)	BSM@Collider tools
10:30-11:00	Coffee break	
11:00 - 12:30	O. P. C Mattelaer (U.C. Louvain / CERN)	Hands on collider tools - FeynRules, MG5_aMC, NLO, (B)SM, ...
12:30 – 13:30	P. Richardson (CERN & IPPP, Durham University)	Hands on collider tools - Herwig
13:30 - 16:00	Lunch break	
16:05 - 16:35	M. Boudaud (LPTHE)	USINE
16:35-17:05	W. Waltenberger (HEPHY VIENNA)	CLUMPY
17:05 – 17:35	A. Kvellestad (Nordita)	Hands on collider tools - Gambit

Wednesday 13th of September

9:00 – 09:30	T. Hahn (MPI f. Physik)	FormCalc and FeynArts
9:30 – 10:00	H. Bahl (Max-Planck für Physik, München)	FeynHiggs
10:00-10:30	E. Conte (Institut Pluridisciplinaire Hubert Curien)	LHC results reinterpretation tools
10:30 - 11:00	Coffee break	
11:00 – 11:30	P. Scott (Imperial College London)	Gambit
11:30-12:00	J. Reuter (DESY Hamburg, Germany)	Whizard
12:00 – 12:30	S. Jahn (MPI)	PySecDec
12:30 – 13:15	Closing Remarks	
13:30 - 16:00	Lunch break	
16:00-19:00	Guided tour with bus	
20:30	Conference Dinner	

Thursday 14 of September*Departure Day*