

# 10th International Symposium on Radiative Corrections RADCOR 2011

Sunday 25 September

19:30 Welcome Dinner

Monday 26 September

09:00 Welcome

Organisers

## Results from LHC

**Chair:** D.P. Roy

09:15 Recent results from ATLAS

Judith Katzy

10:00 Recent results from CMS

Marco Pieri

10:45 *High Tea*

## Parton distribution functions

**Chair:** D.P. Roy

11:30 NNPDF in the LHC era

Valerio Bertone

12:00 *Lunch*

## Photon structure function

**Chair:** J. Fujimoto

14:00 Photon Structure in Supersymmetric QCD

Tsuneo Uematsu

14:30 Mass effect on the photon structure functions

Norihisa Watanabe

15:00 Generalized parton distributions of the photon

Asmita Mukherjee

15:30 *Tea*

## Multi-leg processes

**Chair:** K. Chetyrkin

16:00 Hard multi-particle processes at NLO QCD

Andreas van Hameren

16:30 NLO QCD corrections to hadronic  $WWbb$  production

Stefano Pozzorini

17:00 Multiparton NLO corrections by numerical methods

Sebastian Becker

17:30 Results in precision multiboson+jet phenomenology

Christoph Englert

18:00 Multi vector boson production via gluon fusion

Ambresh Shivaji

19:30 *Dinner*

Tuesday 27 September

Higher Order Automation & Monte Carlo

Chair: M. Caffo

08:30	Tensor reduction for one loop Feynman integrals	T. Riemann
09:00	The GRACE project	Jumpei Fujimoto
09:30	Automated One-Loop Calculations with Golem/Samurai	Gudrun Heinrich
10:00	New results in NLO calculations	Tom Melia

10:30 *Tea*

Chair: T. Uematsu

11:00	A recursive one-loop algorithm for many-particle amplitudes	Philipp Maierhöfer
11:30	Reduze 2 - a tool for reductions and more	Andreas von Manteuffel

Resummation

Chair: T. Uematsu

12:00	Exact Amplitude-Based Resummation in Quantum Field Theory	Bennie F. L. Ward
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12:30 *Lunch*

14:00	Large-x resummation in semi-inclusive $e^+e^-$ annihilation	Nicola A. Lo Presti
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Top, Drell-Yan, Higgs

Chair: M. Neubert

14:30	The top-pair total cross section at NNLL order	Pietro Falgari
15:00	NNLL top-antitop production at threshold	Maximilian Stahlhofen
15:30	Higher order QCD correction for the DY process	Giancarlo Ferrera

16:00 *Tea*

16:30	Signal-background interference in $gg \rightarrow H \rightarrow VV$	Nikolas Kauer
17:00	Top mass effects in scalar and pseudo-scalar Higgs bosons production at NNLO for hadron colliders	Mikhail Rogal
17:30	Heavy-Majorana- $\nu$ effects on MSSM- $M_h$	Maria Herrero

18:30 *Cultural Program*

20:30 *Dinner*

Wednesday 28 September

Higher Order Automation & Monte Carlo (continued)

**Chair:** B.F.L. Ward

08:30	Herwiri2.0: EW Corrections for a Hadronic MC	Scott Alan Yost
09:00	MC@NLO: Automation of one-loop QCD corrections in the SM	Valentin J Hirschi
09:30	Alternative NLO-QCD subtraction method using Nagy-Soper parton showers	Michael Kubocz
10:00	One Loop Corrections to Multi-Jet Production	Simon Badger
10:30	Precise inclusive Higgs predictions using iHixs	Stephan Buehler
11:00	<i>High Tea</i>	
11:30	<i>Trip to Kanchipuram by bus</i>	
20:30	<i>Dinner</i>	

Thursday 29 September

Multi-loop methods

Chair: G. Heinrich

08:30	$Z$ decay in $\mathcal{O}(\alpha_s^4)$ : complete result	Konstantin Chetyrkin
09:00	3 Loop Corrections to DIS Heavy Flavor Production	Johannes Blümlein
09:30	Symbolic Summation for Particle Physics	Carsten Schneider
10:00	Two-loop QED massive operator matrix elements	Abilio de Freitas
10:30	<i>Tea</i>	

Radiative corrections at low energy

Chair: A. Nyffeler

11:00	Theoretical improvements for luminosity monitoring at low energies	Janusz Gluza
11:30	Rho-gamma mixing and $e^+e^-$ vs tau spectral function	Robert Szafron
12:00	Improving form factor analysis using unitarity and analyticity	Abbas Gauhar
12:30	<i>Lunch</i>	

Infra-red structure of amplitudes

Chair: T. Riemann

14:00	Precision collider physics from SCET	Matthias Neubert
14:30	Infrared Singularities at High Energy	Lorenzo Magnea
15:00	Disentangling Infrared Singularities	Franz Herzog
15:30	<i>Tea</i>	
16:00	Double Parton Scattering Singularity in One-Loop Integrals	Jonathan R Gaunt
16:30	Antenna Subtraction at NNLO for the LHC	James Currie
19:30	<i>Conference Dinner</i>	

Friday 30 September

Beyond the Standard Model at NLO

**Chair:** L. Magnea

08:30	$\mathcal{O}(\alpha_s^2)$ QCD corrections to the Resonant Sneutrino / Slepton production at Hadron Colliders	Swapan K. Majhi
09:00	NNLL resummation for squark-antisquark production	Irene Niessen
09:30	Gluon-initiated KK-gluon production in the Bulk Randall Sundrum Model	K. Sridhar
10:00	Production of KK-graviton in association with a boson via gluon fusion in the LHC	Subhadip Mitra

10:30                    *Tea*

**Chair:** J. Gluza

11:00	$W^+W^-$ production in Large extra dimension model to NLO at the LHC	Anurag Tripathi
11:30	Graviton plus vector boson production to NLO QCD	Satyajit Seth
12:00	<b>Why Precision ?</b>	Johannes Blümlein
12:45	<b>Vote of thanks</b>	Organisers
13:00	<i>Lunch</i>	