

Session 5: QCD hard interactions

Session conveners:

Zvi Bern (UCLA)

Stefano Frixione (Genova)

Guenther Dissertori (Zurich)

Green Hall

Thursday, July 27, 2006

Session I

10:00 – 11:30

Chair:

G. Dissertori

Secretaries:

Andrey Radzhabov

Alexander Pimikov

10:00 – 10:20	“Review of α_s measurements”	S. Kluth (MPI Munich)
10:20 – 10:35	“Jets and α_s at HERA”	J. Terron (Univ. Autonoma Madrid)
10:35 – 10:50	“ α_s in e^+e^- collisions (LEP, JADE)”	J. Schieck (MPI Munich)
10:50 – 11:05	“Jets at LHC”	I. Vivarelli (Pisa)
11:05 – 11:25	“Overview of recent developments in QCD at NLO and beyond”	S. Moch (DESY Zeuthen)

Session II

12:00 – 13:30

Chair:

Z. Bern

Secretaries:

Andrey Radzhabov

Alexander Pimikov

12:00 – 12:15	“Fully differential Higgs and gauge bosons production at the LHC through NNLO in QCD”	K. Melnikov (Univ. of Hawaii)
12:15 – 12:30	“Higgs Decay to Bottom-Quarks and Gluons: New Multi-Loop Results”	K. Chetyrkin (Univ. of Karlsruhe)
12:30 – 12:45	“Event and jet shapes at HERA”	S. Levonian (DESY)
12:45 – 13:00	“Inclusive jet and hadron production in DIS at NLO”	R. Sassot (Univ. de Buenos Aires)
13:00 – 13:15	“Inclusive jet production at the TEVATRON”	A. Kupco (Inst. of Physics of Czech Academy of Sciences)
13:15 – 13:30	“W and Z production at the TEVATRON”	M. Sanders (Univ. of Maryland)

Session III **14:30 – 16:00**

Chair: **G. Dissertori**
Secretaries: **Andrey Radzhabov**
Alexander Pimikov

14:30 – 14:45	“W/Z+jets and Z pT measurements at the TEVATRON”	Y.S. Chung (Univ. of Rochester)
14:45 – 15:00	“Photon production at the TEVATRON”	Ch. Schwanenberger, (Univ. of Manchester)
15:00 – 15:15	“Results from two-photon collisions at LEP”	V. Andreev (UCLA)
15:15 – 15:30	“Multi-Jet Final States at HERA”	T. Gosau (Univ. of Hamburg)
15:30 – 15:45	“Parton dynamics studies at HERA”	F. Eisele (Univ. of Heidelberg)
15:45 – 16:00	“Prompt photons and particle momentum distributions at HERA”	N. Gogitidze (LPI Moscow)

Session IV **16:30 – 18:30**

Chair: **Z. Bern**
Secretaries: **Andrey Radzhabov**
Alexander Pimikov

16:30 – 16:45	“Towards precision determination of unintegrated gluon densities”	H. Jung (DESY)
16:45 – 17:00	“High-order QCD corrections in the fit of PDFs”	S. Alekhin (IHEP Protvino)
17:00 – 17:15	“PDF measurements at HERA”	E. Tassi (Univ. of Cosenza and INFN)
17:15 – 17:30	“Anomalous dimensions of Wilson operators in QCD and N=4 SYM model”	A. Kotikov (JINR Dubna)
17:30 – 17:45	“QED x QCD Exponentiation and Shower/ME Matching at the LHC”	B. Ward (Baylor University)
17:45 – 18:00	“Gluon polarization measurement at COMPASS”	O. Kouznetsov (JINR Dubna)
18:00 – 18:15	“New results from HERMES”	V. Korotkov (IHEP Protvino)
18:15 – 18:30	“New polarized pp results at $\sqrt{s} = 200$ GeV from STAR at RHIC”	B. Surrow (MIT)

Main Hall

Saturday, July 29, 2006

Session V

14:30 – 16:00

Chair: **Z. Bern**
Secretaries: **Vladimir Skokov**
Sergey Kuklin

14:30 – 14:45	“Initial state radiation (ISR) study at BaBar and the application to the R measurement and hadron spectroscopy”	G. Solodov (Novosibirsk)
14:45 – 15:00	“Four Loop Calculations as Tool for Precise Quark Mass Determinations”	J. Kuehn (Univ. of Karlsruhe)
15:00 – 15:15	“Studies of fragmentation and colour reconnection at LEP”	P. Azzurri (SNS & INFN Pisa)
15:15 – 15:30	“Charm and Beauty in DIS”	D. Pitzl (DESY)
15:30 – 15:45	“c and b photoproduction results from HERA”	M. Zambrana (Univ. Autonoma Madrid)
15:45 – 16:00	“Heavy flavor production at the TEVATRON”	K. Hatakeyama (Rockefeller Univ.)