

LIST OF PUBLICATIONS (PEER REVIEWED)

Carron J, Rosenfelder R

A new path-integral representation of the T-matrix in potential scattering
PHYSICS LETTERS A **375**, 3781 (2011)

Chachamis G, Angioni M, Madrigaloe J, Sabio Vera A
Dijet Production at Large Rapidity Separation in N=4 SYM
PHYSICAL REVIEW LETTERS **107**, 191601 (2011)

Chachamis G, Deak M, Vera AS, Stephens P
A comparative study of small x Monte Carlos with and without QCD coherence effects
NUCLEAR PHYSICS B **849**, 28 (2011)

Denner A, Dittmaier S, Kallweit S, Pozzorini S
Next-to-Leading-Order QCD Corrections to $W^{(+)}W^{(-)}b\bar{b}$ Production at Hadron Colliders
PHYSICAL REVIEW LETTERS **106**, 052001 (2011)

Denner A, Heinemeyer S, Puljak I, Rebuszi D, Spira M
Standard model Higgs-boson branching ratios with uncertainties
EUROPEAN PHYSICAL JOURNAL C **71**, 1753 (2011)

Dittmaier S, Kramer M, Spira M, Walser M
Charged-Higgs-boson production at the LHC: Next-to-leading-order supersymmetric QCD corrections
PHYSICAL REVIEW D **83**, 055005 (2011)

Li Q, Spira M, Gao J, Li CS
Higgs Boson Production via Gluon Fusion in the Standard Model with four Generations
PHYSICAL REVIEW D **83**, 094018 (2011)

Noth D, Spira M
Supersymmetric Higgs Yukawa couplings to bottom quarks at next-to-next-to-leading order
JOURNAL OF HIGH ENERGY PHYSICS **1106**, 084 (2011)

Rosenfelder R
Exact Path-Integral Representations for the T-Matrix in Nonrelativistic Potential Scattering
FEW-BODY SYSTEMS **49**, 41 (2011)

de Aquino P, Hagiwara K, Li Q, Maltoni F
Simulating graviton production at hadron colliders
JOURNAL OF HIGH ENERGY PHYSICS **1106**, 132 (2011)

BOOK CHAPTER

Dittmaier et al, for PSI Spira M. (LHC Higgs Cross Section Working Group Collaboration).
Handbook of LHC Higgs Cross Sections: 1. Inclusive Observables.
January 2011. 153 pp
e-Print: arXiv:1101.0593 [hep-ph]

Spira M., Schumacher M.
The Higgs boson: Still elusive after 40 years.
Published in In *Brock, Ian, Schoerner-Sadenius, Thomas (eds.): Physics at the terascale* 2011, p 123-142

INVITED TALKS

Actis S.
Measuring the luminosity at colliders with Bhabha scattering
New York City College of Technology, USA, October 13, 2011

Brucherseifer M.
Higgs boson self couplings in the MSSM
DPG Fruehjahrstagung, Karlsruhe, Germany, March 30, .2011

Brucherseifer M.
MSSM Higgs Selbstkopplungen
Zurich PhD seminar 2011, ETH Zürich Hoenggerberg, Switzerland, August 29, 2011

Chachamis G.
Mellin-Barnes techniques and gauge boson pair production to NNLO
Kick-off meeting of the LHCPhenoNet Initial Training Network, Valencia, Spain, February 2011

Chachamis G.
Mellin- Barnes techniques and 2-loop QCD corrections to W pair production
Seminar Talk, Universidad Autonoma de Madrid, Madrid, Spain, February 2011

Chachamis G.
W pair production at NNLO: status report
Les Houches 2011: Physics at TeV Colliders, Les Houches, France, June 2011

Chachamis G.
Towards $q q \rightarrow W W$ at NNLO at the LHC
Collider Cross Talk seminar, CERN, Switzerland, November 2011,

Kallweit St.
NLO QCD Corrections to $WWbb$ Production at Hadron Colliders
Evanston, IL, Northwestern University und High Energy Physics division des Argonne National Laboratory,.
May 14, 2011

Li.Q.
One Loop Matrix Element Matching with Parton Shower for Higgs Gluon fusion
Pheno11, Wisconsin Madsion, USA, October 5, 2011.

Li Q.
One Loop Matrix Element Matching with Parton Shower for Higgs Gluon fusion
Michigan State Univeristy, East Lansing, USA, December 5, 2011.

Spira M.
LHC Theory
CHIPP Plenary Meeting, Leysin, Switzerland, September 2011

Spira M.
News on HDECAY and HIGLU
Higgs Days, Santander, Spain, September 19 – 23 2011

Spira M.
Precision Higgs physics at the LHC and future LCs
Conference LC11, Trento, Italy, September 11 – 15, 2011

Spira M.
MSSM Neutral Higgs
Workshop of LHC Higgs Cross Section Working Group, Orsay, France, November 2011

Spira M.
SM BR
Workshop of LHC Higgs Cross Section Working Group, Orsay, France, November 21 – 23, 2011

MEMBERSHIPS IN COMMITTEES

Spira M.

- Convenor of the working group “Electroweak Gauge Theories and Alternative Theories” of the ECFA Study of Physics and Detectors for a Linear Collider
- Convenor of the working group “ttH Higgs Associated Production Process” and working group “MSSM Neutral Higgs” of the LHC Higgs Cross Section Working Group
- Member Berufungskommission für die Nachfolge von Daniel Wyler an der Universität Zürich
- Program and advisory committee, PSI Ring-Zyklotron