

Gionata Luisoni

Physicist

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PERSONAL INFORMATION

Date of Birth September 2, 1983
Place of Birth Locarno, Ticino, Switzerland
Nationality Swiss

EMPLOYMENTS

- Oct. 2017 **Postdoctoral position**, *Max Planck Institute for Physics (Werner Heisenberg Institut)*, MPP,
– March 2018 München, Germany.
First computation of Higgs boson production with one jet, obtained numerically on HPC clusters and GPUs (Fortran, C++, Python, Cuda). Deep learning specialization and courses on Hadoop, SQL, R and time series analysis on Coursera. Development of a Deep Learning Code (C++, Python, Tensorflow) for the classification of high energy Higgs production processes.
- Oct. 2015 **CERN fellow**, *Theory Division*, CERN, Geneva, Switzerland.
– Sep. 2017 Further development of GoSam and more applications, among which also a study for the physics potential of future particle accelerators. Generation and analysis (Python, C++) of large sets of pseudo-data for physics studies.
- Sep. 2012 **Postdoctoral position**, *Max Planck Institute for Physics (Werner Heisenberg Institute)*,
– Sep. 2015 MPP, München, Germany.
Development of GoSam and its applications to several experimentally relevant calculations and simulations (Fortran, C++, Python). The simulations are based on Monte Carlo integration and on the generation of big pseudo-data samples, which are then analysed and compared with real data measured in the experiments.
- Oct. 2010 **Postdoctoral position**, *Institute for Particle Physics Phenomenology (IPPP)*, University of
– Aug. 2012 Durham, Durham, UK.
Joined the GoSam Collaboration (<https://gosam.hepforge.org>). The GoSam Project consists of a team of 8 to 13 people, in which we developed and published the first code (Python, FORM) for the automatic computation of quantum corrections for scattering amplitudes.
- Jun. 2010 **Postdoctoral position (bridging)**, *Institute for theoretical Physics*, Universität Zürich,
– Oct. 2010 Zürich, Switzerland.
Computation of precise predictions for event-shape observables and their implementation in a C++ code for a new determination of the strong coupling constant through fits (χ^2 -minimization) to experimental data.

EDUCATION AND ADVANCED TRAINING

- 2018 **Course on “Excel to MySQL: Analytic Techniques for Business” on Coursera.**
- 2018 **Course on time series analysis on Coursera.**
- 2018 **Deep Learning Specialisation on Coursera**, *With Courses on: Neural Networks and Deep Learning, Structuring Machine Learning Projects, Improving Deep Neural Networks: Hyperparameter tuning Regularization and Optimization, Convolutional Neural Networks, Sequence Models.*
- 2007 – 2010 **Ph.D. Student in Theoretical Particle Physics**, *Institute of Theoretical Physics*, University of Zürich, Zürich.
- PH.D. THESIS "mit Auszeichnung"
- title *Higher Order Corrections to Jet Observables*
- description The thesis is divided into three main topics which consist in:
- analytical computations of phase-space integrals,
 - development of a C++ Code for a new determination of the strong coupling constant,
 - computation of non-perturbative corrections for an new determination of the strong coupling constant.
- 2002 – 2007 **Diploma Student in Physics**, *Department of Physics*, ETH, Zürich.
Diploma in 2007 (Equivalent to a Master of Science ETH).
- 1998 – 2002 **Liceo Cantonale**, *Physics and mathematics oriented curriculum*, Locarno.
Maturità in 2002.

LANGUAGES

- Italian Fluent (mother tongue)
- German Business fluent in oral and written
- English Business in oral and written
- French Fluent oral knowledge, good written knowledge

SOFTWARE KNOWLEDGE

- OS Microsoft™ Windows; Linux: OpenSuse and Ubuntu
- Programming Languages Fortran 77/90 (very good knowledge), Python (very good knowledge), C++ (good knowledge), bash (good knowledge)
- ML Tensorflow, Keras (basic knowledge), Scikit (basic knowledge)
- Version cont. SVN, Git (good knowledge)
- Database SQLite (basic knowledge)
- Scientific R, Mathematica™, FORM, Gnuplot, ROOT, Stella™
- Office L^AT_EX, MS Office™(Word, Excel, PowerPoint)

FURTHER WORKING EXPERIENCES

- 2007 – now **Astronomy outreach**, *Organization of observational nights for CAL (Centro Astronomico del Locarnese)*, Locarno, Switzerland.
- 2008 – 2018 **Supervision of bachelor, master and PhD students**, *Supervision of several students within the research groups or research projects where I was actively involved.*
- 2003 – 2017 **Lectures and teaching assistance for scholars and students and PhD students.**
- 2005 – 2016 **Part time job**, *Translation of weather forecasts for Meteonews AG.*
Mr. Peter Wick.

HOBBIES AND INTERESTS

Aeronautics, general physics and astronomy, mountaineering

Additional material: seminars, talks and publications

INVITED SEMINAR AND CONFERENCE TALKS

Invited Seminars

- 01.03.18 **Seminar**, *Università di Milano Bicocca*, Milan, Italy.
Finite mass effects in Higgs boson plus jets production .
- 23.03.17 **ATLAS Seminar**, *CERN*, Geneva, Switzerland.
An Introduction to Powheg.
- 17.02.17 **Tutorial**, *Università degli Studi di Padova*, Padova, Italy.
GoSam: a tutorial. Automating 1-loop and NLO calculations.
- 16.02.17 **Pheno Seminar**, *Università degli Studi di Padova*, Padova, Italy.
Higgs boson production in association with jets: NLO corrections vs mass effects.
- 30.01.17 **Theory Seminar**, *Max-Planck Institute für Physics*, München, Germany.
Higgs boson production in association with jets: NLO corrections vs mass effects.
- 12.01.17 **Teilchenphysik Seminar**, *Technische Universität München*, Garching, Germany.
Higgs boson production in association with jets: NLO corrections vs mass effects.
- 07.10.16 **Particle and Astro-Particle Physics Seminars** , *CERN*, Geneva, Switzerland.
Higgs boson production in association with jets: NLO corrections vs mass effects.
- 03.12.15 **Kolloquium über Teilchenphysik**, *Karlsruher Institut für Technologie (KIT)*, Karlsruhe, Germany.
Higgs boson production in association with jets.
- 19.05.14 **High Energy Physics Seminars**, *Northwestern University*, Evanston, IL, USA.
Higgs plus light/heavy jets production at NLO with GoSam.
- 27.02.13 **Seminaire hadronique et des particules**, *CEA*, Saclay, France.
Thrust Distribution at NNLL+NNLO and a new determination of the strong coupling constant.
- 29.11.12 **Physics Seminar**, *City University New York*, Brooklyn, NY, USA.
What do Experimentalists at LHC Want from the Theorists.
- 15.06.12 **Particle Physics Seminar**, *University of Southampton*, Southampton, UK.
Automated NLO calculations with GoSam.
- 24.04.12 **Joint DAMPT-Cavendish HEP Phenomenology Seminar**, *Cavendish Laboratory*, Cambridge, UK.
Automatic NLO calculations with GoSam.
- 16.02.12 **Particle Physics Seminar**, *University of Manchester*, Manchester, UK.
Automatic NLO calculations with GoSam.
- 16.01.12 **Particle Physics Seminar**, *Max-Planck Institute for Physics*, Munich, Germany.
Resummation of the Thrust Distribution in the Dijet Region and QCD precision studies.
- 24.06.11 **IPPP Internal Seminar**, *University of Durham*, Durham, UK.
Two loops Soft Corrections and Resummation of the Thrust distribution in the Dijet Region.
- 17.06.11 **IPPP Internal Seminar**, *University of Durham*, Durham, UK.
All you ever wanted to know about "Resummation" but never dared to ask.
- 01.12.10 **Physics Seminar**, *University of Liverpool*, Liverpool, UK.
Determining the Strong Coupling Constant at NNLO from Jet Observables.
- 15.10.10 **IPPP**, *University of Durham*, Durham, UK.
Higher Order Corrections to Jet Observables.

Conferences and Workshops

- 10.09.17 **TOOLS17**, Corfu Summer Institute, Corfu, GR.
N(N)LO calculations.
- 04.04.17 **DIS17**, University of Birmingham, Birmingham, UK.
Spin polarization in top pair production in association with two photons at NLO+PS.
- 04.04.17 **DIS17**, University of Birmingham, Birmingham, UK.
Finite mass effects in Higgs and double Higgs production.
- 19.01.16 **Rencontres de Blois 2016**, Château Royal de Blois, Blois, France.
Higgs + 3 jets production in NLO QCD.
- 19.01.16 **International workshop on Advanced Computing and Analysis Techniques in physics research (ACAT)**, Universidad Técnica Federico Santa María, Valparaíso, Chile.
Higgs boson production in association with jets in gluon-gluon fusion.
- 06.01.16 **The Zurich Phenomenology Workshop**, ETHZ, Zürich, Switzerland.
Higgs boson production in association with jets in gluon-gluon fusion.
- 09.10.15 **QCD, EW and tools at 100 TeV**, CERN, Geneva, Switzerland.
NLO H+jets in gluon gluon fusion.
- 07.10.15 **QCD, EW and tools at 100 TeV**, CERN, Geneva, Switzerland.
NLO+PS Wbb and Wbbj at 100 TeV.
- 02.09.15 **LHCP2015**, Hotel Corinthia, St.Petersburg, Russia.
Higher order calculations: status and prospects.
- 24.06.15 **LHC Higgs XS VBF+VH Subgroup Meeting**, CERN, Geneva, Switzerland.
Distinguishing VBF from gluon-gluon fusion.
- 06.01.15 **NLO Users-of-Sherpa Meeting**, University of Zurich, Zürich, Switzerland.
GoSam+Sherpa user experiences.
- 09.12.14 **Higgs+Jets Workshop**, IPPP, Durham, UK.
Higgs plus 3 jets in ggf at NLO.
- 21.10.14 **LHC Higgs XS VBF+VH Subgroup Meeting**, CERN, Geneva, Switzerland.
Gluon fusion in H+3j as a background to VBF.
- 03-05.09.14 **HP2.5**, Acetri, Florence, Italy.
NLO Higgs phenomenology with GoSam.
- 18.07.14 **LHC Higgs XS WG2: extension of k-framework**, CERN, Geneva, Switzerland.
gg→HZ in the POWHEG-BOX-V2 with coupling variation.
- 12-16.05.14 **American Workshop on Linear Colliders**, Fermilab, Batavia, IL, USA.
Status and prospects of α_s determination at e^+e^- colliders.
- 19-21-01.14 **MPI Retreat**, Hotel zur Post, Bayrischzell, Germany.
Higgs phenomenology (@ MPI Pheno Group).
- 15.01.14 **ATLAS-Sherpa Top Physics WS**, MPI, München, Germany.
Higgs associated top quark pair production (including an extra jet).
- 10.01.14 **NLO Users-of-Sherpa Meeting**, MPI, München, Germany.
Recent developments in GoSam.
- 08-10.01.14 **The Zurich Phenomenology Workshop**, ETHZ, Zürich, Switzerland.
Recent developments in GoSam.
- 16-17.12.13 **ATLAS Higgs WG (N)NLO MC and Tools WS**, CERN, Geneva, Switzerland.
Higgs + jets in gluon fusion with GoSam.
- 11-15.11.13 **LCWS13**, University of Tokyo, Tokyo, Japan.
Review of α_s determinations from e^+e^- annihilation.
- 22-27.09.13 **Radcor13**, Lumley Castle, Chester-le-Street, UK.
Interfacing GoSam with Monte Carlo event generators.
- 28.04-
03.05.13 **Amplitudes 2013**, Ringberg Castle, Kreuth, Germany.
GoSam: automated multi-process scattering amplitudes at one loop.

- 09-16.03.13 **Rencontre de Moriond**, La Thuile, Aosta Valley, Italy.
NLO calculations with GoSam.
- 04-08.03.13 **Tagung der Deutsche Physikalische Gesellschaft**, TU Dresden, Dresden, Germany.
Automatic NLO calculations with GoSam.
- 19-21.11.12 **ATLAS-CMS-LPCC MC generators and future challenges workshop**, CERN, Geneva, Switzerland.
Automatic NLO calculations with GoSam.
- 01-12.10.12 **TH/LPCC Institute on SM at the LHC**, CERN, Geneva, Switzerland.
Automatic NLO calculations with GoSam via BLHA.
- 04-07.09.12 **HP2.4**, Max-Planck Institute for Physics, Munich, Germany.
Automated NLO calculations with GoSam.
- 19-22.03.12 **LHCPhenoNet workshop**, Lumley Castle, Chester-le-Street, UK.
Automatic NLO calculations with GoSam.
- 14-17.09.10 **HP2.3**, Acetri, Florence, Italy.
NNLO Antenna Subtraction with One Hadronic Initial State.
- 19-23.04.10 **DIS10**, Convitto della Calza, Florence, Italy.
NNLO Antenna Subtraction with One Hadronic Initial State, and Determining α_s at NNLO from Event-Shape Data.
- 25-30.10.09 **Radcor09**, Monte Verità, Ascona, Switzerland.
NNLO Antenna Subtraction with One Hadronic Initial State.
- 21-24.09.09 **LC09**, Università degli Studi di Perugia, Perugia, Italy.
Event Shapes at NLLA+NNLO and a New Determination of α_s .
- 04-05.06.09 **Ph.D. Students Seminar in Particle Physics**, ETH, Zürich, Switzerland.
NNLO Antenna Subtraction with Hadronic Initial States.
- 16-20.11.08 **ILC08 & LCWS08**, University of Illinois, Chicago, USA.
Event Shapes at NLLA+NNLO.
- 29.07-05.08.08 **ICHEP08**, University of Pennsylvania, Philadelphia, USA.
Matching of Resummed NLLA with Fixed NNLO for Event Shapes.
- 26-30.05.08 **HERA and LHC workshop**, CERN, Geneva, Switzerland.
Event Shapes at NLLA+NNLO.
- 07-11.04.08 **DIS08**, University College London, London, UK.
Matching of Fixed Order and Resummed Calculations for Event Shapes.
- 26-27.03.08 **SPS Jahrestagung 08**, University of Geneva, Geneva, Switzerland.
Matching of Fixed Order and Resummed Calculations for Event Shapes.
- 13-14.09.07 **Ph.D. Students Seminar in Particle Physics**, ETH, Zürich, Switzerland.
Matching of Fixed Order and Resummed Calculations in pQCD.

PUBLICATIONS

Journal
Papers

- S. Jones, M. Kerner, G. Luisoni, *NLO QCD corrections to Higgs boson plus jet production with full top-quark mass dependence*, Phys. Rev. Lett. **120** (2018) 162001, arXiv:1802.00349 [OA].
- F. Caola, G. Luisoni, K. Melnikov, R. Rötsch, *NNLO QCD corrections to associated WH production and $H \rightarrow b\bar{b}$ decay*, Phys. Rev. D **97** (2017) 074022, arXiv:1712.06954 [OA].
- G. Heinrich, S. Jones, M. Kerner, G. Luisoni, E. Vryonidou, *NLO predictions for Higgs boson pair production with full top quark mass dependence matched to parton showers*, JHEP **1708** (2017) 088, arXiv:1703.09252 [OA].
- S. Alioli, F. Caola, G. Luisoni, R. Rontsch, *ZZ production in gluon fusion at NLO matched to parton shower*, Phys. Rev. D **95** (2017) 3, arXiv:1609.09719 [OA].

- N. Greiner, S. Hoeche, G. Luisoni, M. Schonherr, J.C. Winter, *Full mass dependence in Higgs boson production in association with jets at the LHC and FCC*, JHEP **1701** (2017) 091, arXiv:1608.01195 [OA].
- H. van Deurzen, R. Frederix, V. Hirschi, G. Luisoni, P. Mastrolia, G. Ossola, *Spin Polarisation of $t\bar{t}\gamma\gamma$ production at NLO+PS with GoSam interfaced to MadGraph5_aMC@NLO*, Eur. Phys. J. C **76** (2016) 4, 221, arXiv:1509.02077 [OA].
- N. Greiner, S. Hoeche, G. Luisoni, M. Schonherr, J.C. Winter, Y. Yundin, *Phenomenological analysis of Higgs boson production through gluon fusion in association with jets*, JHEP **1601** (2016) 169, arXiv:1506.01016 [OA].
- G. Luisoni, S. Marzani, *QCD resummation for hadronic final states*, J. Phys. G **42** (2015) 10, 103101, arXiv:1505.04084 [OA].
- G. Luisoni, C. Oleari, F. Tramontano, *$Wb\bar{b}j$ production at NLO with POWHEG+MiNLO*, JHEP **1504** (2015) 161, arXiv:1502.01213 [OA].
- G. Cullen, H. van Deurzen, N. Greiner, G. Heinrich, G. Luisoni, P. Mastrolia, E. Mirabella, G. Ossola and T. Peraro, J. Schlenk, J. F. von Soden-Fraunhofen and F. Tramontano, *GoSam-2.0: a tool for automated one-loop calculations within the Standard Model and beyond*, Eur. Phys. J. C **74** (2014) 8, 3001, arXiv:1404.7096 [OA].
- H. van Deurzen, G. Luisoni, P. Mastrolia, E. Mirabella, G. Ossola and T. Peraro, *Multi-leg One-loop Massive Amplitudes from Integrand Reduction via Laurent Expansion*, JHEP **1403** (2014) 115, arXiv:1312.6678 [OA].
- S. Alioli *et al.*, *Update of the Binoth Les Houches Accord for a standard interface between Monte Carlo tools and one-loop programs*, Comput. Phys. Commun. **185** (2014) 560, arXiv:1308.3462 [OA].
- H. van Deurzen, G. Luisoni, P. Mastrolia, E. Mirabella, G. Ossola and T. Peraro, *NLO QCD corrections to Higgs boson production in association with a top quark pair and a jet*, Phys. Rev. Lett. **111** (2013) 171801, arXiv:1307.8437 [OA].
- G. Cullen, H. van Deurzen, N. Greiner, G. Luisoni, P. Mastrolia, E. Mirabella, G. Ossola, T. Peraro and F. Tramontano, *NLO QCD corrections to Higgs boson production plus three jets in gluon fusion*, Phys. Rev. Lett. **111** (2013) 131801, arXiv:1307.4737 [OA].
- S. Hoeche, J. Huang, G. Luisoni, M. Schoenherr and J. Winter, *Zero and one jet combined next-to-leading order analysis of the top quark forward-backward asymmetry*, Phys. Rev. D **88** (2013) 1, arXiv:1306.2703 [OA].
- G. Luisoni, P. Nason, C. Oleari and F. Tramontano, *$HW^\pm/HZ + 0$ and 1 jet at NLO with the POWHEG BOX interfaced to GoSam and their merging within MiNLO*, JHEP **1310** (2013) 083, arXiv:1306.2542 [OA].
- H. van Deurzen, N. Greiner, G. Luisoni, P. Mastrolia, E. Mirabella, G. Ossola, T. Peraro, J. F. von Soden-Fraunhofen and F. Tramontano, *NLO QCD corrections to the production of Higgs plus two jets at the LHC*, Phys. Lett. B **721** (2013) 74, arXiv:1301.0493 [OA].
- T. Gehrmann, G. Luisoni, P. F. Monni, *Power corrections in the dispersive model for a determination of the strong coupling constant from the thrust distribution*, Eur. Phys. J. C **73** (2013) 2265, arXiv:1210.6945 [OA].
- G. Cullen, N. Greiner, G. Heinrich, G. Luisoni, P. Mastrolia, G. Ossola, T. Reiter, F. Tramontano, *Automated One-Loop Calculations with GoSam*, Eur. Phys. J. C **72** (2012) 1889, arXiv:1111.2034 [OA].
- P.F. Monni, T. Gehrmann and G. Luisoni, *Two-Loop Soft Corrections and Resummation of the Thrust Distribution in the Dijet Region*, JHEP **1108** (2011) 010, arXiv:1105.4560 [OA].
- A. Daleo, A. D. Ridder, T. Gehrmann and G. Luisoni, *Antenna subtraction at NNLO with hadronic initial states: initial-final configurations*, JHEP **1001** (2010) 118, arXiv:0912.0374 [OA].
- T. Gehrmann, M. Jaquier and G. Luisoni, *Hadronization effects in event shape moments*, Eur. Phys. J. C **67** (2010) 57, arXiv:0911.2422 [OA].

- G. Dissertori, A. Gehrmann-De Ridder, T. Gehrmann, E. W. N. Glover, G. Heinrich, G. Luisoni and H. Stenzel, *Determination of the strong coupling constant using matched NNLO+NLLA predictions for hadronic event shapes in $e+e-$ annihilations*, JHEP **0908** (2009) 036, arXiv:0906.3436 [OA].
- T. Gehrmann, G. Luisoni and H. Stenzel, *Matching NLLA+NNLO for event shape distributions*, Phys. Lett. B **664** (2008) 265, arXiv:0803.0695 [OA].

Reports

- M.L. Mangano *et al.*, *Physics at a 100 TeV pp collider: Standard Model processes*, arXiv:1607.01831 [OA].
- R. Contino *et al.*, *Physics at a 100 TeV pp collider: Higgs and EW symmetry breaking studies*, arXiv:1606.09408 [OA].
- S. Heinemeyer *et al.* [LHC Higgs Cross Section Working Group Collaboration], *Handbook of LHC Higgs Cross Sections: 3. Higgs Properties*, arXiv:1307.1347 [OA].

Proceedings

- J. Andersen *et al.*, *A comparative study of Higgs boson plus jet production in gluon fusion*, Contribution to “Les Houches 2015: Physics at TeV Colliders: Standard Model Working Group Report”, Les Houches, arXiv:1605.04692 [OA].
- G. Luisoni, S. Poslavsky and Y. Schröder, *Track 3: Computations in theoretical physics - techniques and methods*, Track 3 session summary of the ACAT2016 conference, Valparaiso, arXiv:1604.03370 [OA].
- G. Cullen, H. van Deurzen, N. Greiner, J. Huston, G. Luisoni, P. Mastrolia, E. Mirabella, G. Ossola, T. Peraro, F. Tramontano, J. Winter and V. Yundin, *Higgs boson plus di- and tri-jet production at NLO in QCD*, Contribution to “Les Houches 2013: Physics at TeV Colliders: Standard Model Working Group Report”, Les Houches, arXiv:1405.1067 [OA].
- G. Luisoni, *Interfacing GoSam with Monte Carlo Event Generators*, Talk given at RADCOR 2013, Chester-le-Street, Lumley Castle, PoS RADCOR **2013** (2014) 027, arXiv:1312.1633 [OA].
- G. Luisoni, *NLO calculations with GoSam*, Talk given at the 48th Rencontres de Moriond on QCD and High Energy Interactions, 9-16 Mar 2013, La Thuile, Italy, arXiv:1312.1633 [OA].
- G. Dissertori, A. Gehrmann-De Ridder, T. Gehrmann, E. W. N. Glover, G. Heinrich, M. Jaquier, G. Luisoni and H. Stenzel, *Determination of the strong coupling constant based on event shapes*, Proceedings of the LC09 WS, Nuovo Cim. C **033N2** (2010) 67 [OA].
- G. Luisoni, *Determining α_s at NNLO from Event-Shape Data*, Talk given at DIS 2010, Florence, PoSDIS **2010** (2010) 121, arXiv:1007.2384 [OA].
- A. Daleo, A. D. Ridder, T. Gehrmann and G. Luisoni, *NNLO Antenna Subtraction with One Hadronic Initial State*, Talk given at DIS 2010, Florence, PoSDIS **2010** (2010) 122 [OA].
- A. Daleo, A. D. Ridder, T. Gehrmann and G. Luisoni, *NNLO Antenna Subtraction with One Hadronic Initial State*, Talk given at RADCOR 2009, Ascona, CSF, PoSRADCOR **2009** (2010) 062, arXiv:1001.2397 [OA].
- H. Jung *et al.*, *Proceedings of the workshop: HERA and the LHC workshop series on the implications of HERA for LHC physics*, arXiv:0903.3861 [OA].
- G. Luisoni, *Event Shape Variables at NLLA+NNLO*, Appeared in the proceedings of International Linear Collider Workshop (LCWS08 and ILC08), Chicago, Illinois, 16-20 Nov 2008, arXiv:0901.3953 [OA].
- T. Gehrmann, G. Luisoni and H. Stenzel, *Matching of Resummed NLLA with Fixed NNLO for Event Shapes*, Talk given at 34th International Conference on High Energy Physics (ICHEP 2008), Philadelphia, Pennsylvania, 30 Jul - 5 Aug 2008, arXiv:0810.3599 [OA].
- G. Luisoni, T. Gehrmann and H. Stenzel, *Matching of resummation with fixed order NNLO for event shapes*, Prepared for 16th International Workshop on Deep Inelastic Scattering and Related Subjects (DIS 2008), London, England, 7-11 Apr 2008.