Prof. Dr. Gudrun Hiller

Personal DataGudrun Hiller Technische Universität Dortmund
Theoretical Physics, GermanyAddress:Phone, Email:
Position:Full Professor (W3)

Academic Education

1985 – 1991	Study of Physics (Diploma), Universität Hamburg, Germany
1995 – 1998	PhD studies in Physics, Universität Hamburg, Germany

Scientific Degrees

1998 1991	PhD in Physics (Dr. rer. nat.), Universität Hamburg/DESY, Prof. A. Ali
	and Prof. G. Kramer
	Diploma in Physics, Universität Hamburg/DESY, Prof. A. Ali

Post-graduation occupations

2005 – present	Professor of Physics, TU Dortmund, Germany
2010 – 2010	Scientific Associate, CERN, Switzerland
2004 – 2005	Scientific Associate, CERN, Switzerland C1,
2002 – 2005	LMU Munich, Germany Research Associate,
1999 – 2002	SLAC, Stanford, USA Postdoc LNF Frascati,
1998 – 1999	Italy

Honors and Awards (selected)

2008 – present	Member of the intl. advisory committee of the Intl. Conference on B-
2012 – 2018	Physics at Frontier machines (BEAUTY) Member of the executive council of the <i>German Physical</i>
2012 – 2018	Society (DPG)
2013 – present	Member of the executive council for particle physics of the Federal Ministry for Education and Research (BMBF) Associate editor for the European Physics Journal C (EPJC)

Third Party funding (selected):

"Quark Flavour Physics and Effective Field Theories" DFG-research group funded 2013-2018, 578 kEUR

"Theoretical calculations for the LHC" BMBF research funding, 6 grants 2006-2024, total 1.1 MEUR

"iTHEPHY – Innovative Team-Teaching for Physics" EU-strategic partnership funded under ERASMUS+ with Bologna and Clermont-Ferrand, and national institutes, 2017-2019, total 369 kEUR

Invited plenary talks (selected):

"Testing factorization" Invited plenary talk at the 9thIntl Heavy Flavor symposium 2001, Caltech, California, USA.

"**Physics reach of rare b decays**" Invited plenary talk at 5th Intl Conference on Hyperons, Charm and Beauty Hadrons 2002, Vancouver, Canada.

"**Phenomenology of New Physics**" Invited plenary talk at the Meeting of the European Physical Society 2003, Paris, France.

"SUSY-induced Flavor and CP-violation in B-physics" Invited plenary talk at the Intl conference on Supersymmetry 2005, IPPP Durham, UK.

"Flavor Physics Theory" Invited plenary talk at the Intl Lepton-Photon conference 2009, Hamburg, Germany.

"Theory of Flavor Physics" Invited plenary talk at the Aspen Particle Physics Winter Conference 2010, Aspen, Colorado, USA.

"Phenomenological Analysis of B->K* mu mu in 2011 plus" Invited plenary talk at Moriond Electroweak Interactions 2011, La Thuile, Italy.

"Rare b decays: Theory" Invited plenary talk at FPCP 2011, Kibbutz Maale Hachamisha, Israel.

"Flavor Physics Theory" Invited plenary talk at the Meeting of the European Physical Society 2015, Vienna, Austria.

"LNU B-Physics Anomalies" Invited plenary talk at Invisibles 2017 Zurich, Switzerland.

"BSM implications of flavour anomalies and beyond" Invited plenary talk at LHCP 2018, Bologna, Italy.

"Theory Summary" Invited plenary talk at Moriond EWK 2019, La Thuile, Italy.

Public Lecture "Einstein – Relativity light" Dortmund Opera, May 2006.

Public Lecture "How to crack a paradigm" Big Tech Day, September 2021.

Invited Lectures at Schools: Nordic LHC Physics workshop Oct 2006, Helsinki, Finland, CERN/FNAL Hadron Collider summer school, CERN, June 2009; European CERN high energy physics school, Raseborg, Finland June/July 2010, 27th Heidelberger Graduate days, Heidelberg, Germany Oct 2011, Autumn school on Particle Physics and Cosmology, Gottingen, Germany 2013, Int. Summer school on Multi-TeV probes of the Standard Model at the LHC, Cargese, Corsica, France 2014, 9th Winter school on Theoretical Physics, CP3, Odense, Denmark, 2017, Winter school on Particle Physics (CHIPP), Sorenberg, Switzerland, 2017, SLAC summer school 2019.

Students supervised (incl ongoing): 18(PhD), 36 (MSc), 42 (BSc)

Reviewer for all national and various international funding organisations, including NSF (USA), NSERC (Canada), FWF (Austria), SNFS (Switzerland), Nobel Committee (2017); all leading international journals in the field.