

Milada Margarete Mühlleitner

Curriculum Vitae

Personal details

Name: Milada Margarete Mühlleitner
Date of birth: 14 February 1971
Place of birth: Aalen/Ostalbkreis (Germany)
Nationality: German

Institutional Address

Institute for Theoretical Physics
Karlsruhe Institute of Technology
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76131 Karlsruhe
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School education

Aug 81 - May 90 Scheffold Gymnasium Schwäbisch Gmünd, Germany
Abitur

Academic education

July 2000 Graduation Ph.D.
Aug 97 - July 00 Ph.D. at DESY, Hamburg and University of Hamburg,
supervised by Prof. Dr. P.M. Zerwas
*“Higgs Particles in the Standard Model and Supersymmetric
Theories”*
June 97 Physics Diploma, RWTH Aachen (Germany)
Supervised by Prof. Dr. W. Bernreuther
“Effective Potential and CP Violation at Finite Temperature”
April 94 - June 97 Study of Physics at RWTH Aachen
Oct 93 “Vordiplom”
Oct 91 - March 94 Study of Physics at Technical University of Braunschweig
Oct 90 - Sept 91 Study of Engineering at Technical University of Braunschweig

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Working Experience

- since Sept 15 Full professor (W3), Karlsruhe Institute of Technology (KIT)
- Sept 09 - Aug 15 Junior professor, KIT
- Feb 06 - Jan 08 Fellow at CERN (Switzerland)
- Feb 05 - Aug 09 Maître de Conférences at the Laboratoire d'Annecy-Le-Vieux de Physique Théorique (LAPTH) and the Université de Savoie (France)
- Oct 02 - Jan 05 Postdoctoral Position at Paul-Scherrer-Institut (Switzerland)
- Okt 00 - Sept 02 Postdoctoral Position, Laboratoire de Physique Mathématique et Théorique (LPMT), Université de Montpellier II (France)
- Aug 00 - Sept 00 Postdoctoral Position at DESY, Hamburg (Germany)

Administrative

- since 2021 Member of the Faculty Board of the KIT Department of Physics (also 2015-19)
- since 2021 Member of the BMBF Review Panel "Teilchen"
- since 2020 Deputy Spokesperson of KCETA
- since 2019 Member of the KIT Division 5 Council
- 2017-2019 Vice Dean of the KIT Department of Physics
- 2015-2017 Member of the Examination Board of the KIT Department of Physics
- since 2012 Member of the KSETA Executive Board and Admission Panel
- since 2011 Equal opportunity commissioner of the KIT Department of Physics
- 2009-2012 Representative of the Collaborative Research Center (SFB) Transregio 9 for the project "Public Science in SFBs", project name "InsideScience"

Grants

- since June 21 Project leader, BMBF-Project 05H21VKCCA
- since Jan 19 Project leader in the CRC TRR257
"P³H Particle Physics Phenomenology after the Higgs Discovery"
- June 18- June 21 Project leader, BMBF-Project 05H18VKCC1
- Oct 16 - Sept 19 DFG grant *"Precision Calculations in the Higgs Sector - Paving the Way to the New Physics Landscape"*
- Oct 16 HERAEUS Seminar *"The High-Energy LHC - Interplay between Precision Measurements and Searches for New Physics"*
- Jan 15 - Dec 16 DAAD grant *Projektbezogener Personenaustausch (PPP)* with Portugal
- since 2012 Project leader in the KSETA Graduate School
- 2011-2020 Project leader in the Research Training Group GRK1694
"Elementary Particle Physics at Highest Energy and Highest Precision"
- 2011-2014 Project leader in the CRC Transregio 9
"Computergestützte Theoretische Teilchenphysik"

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Teaching

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|------------------|--|
| since Sept 15 | Full professor (W3), KIT |
| Sept 09 - Aug 15 | Junior Professor, KIT |
| Feb 05 - Aug 09 | Maître de Conférences LAPTH and Université de Savoie |
| Oct 06 - Feb 07 | Invited Lecturer at the University of Lausanne |

Lectures:

- Mécanique des Fluides (2005/6, in French)
- Standard Model of Particle Physics (2006/7, in English)
- Introduction aux Phénomènes Quantiques (2008, in French)
- Relativité (2008&2009, in French)

in German

- Supersymmetry at Colliders (2009/10&2011&2012/13)
- Quantum Mechanics (2010&2020)
- Theoretical Particle Physics I (2011/12&2013&2018)
- Mechanics II (2012&2014&2015)
- Theoretical Particle Physics II (2013/14&2019/20)
- Physics Beyond the Standard Model (2014/15&2018/19)
- Introduction to Theoretical Particle Physics (2015/16&2016/17,&20/21)
- Modern Physics for Computer Scientists (2016&2019&2021)
- Mechanics I (2017/18&2021/22)

Students since 2009

PhD Students: 11 finished+3 ongoing, *Master Students:* 25 finished+1 ongoing, *Bachelor:* 10

Prizes

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|---------|--|
| May 90 | Book prize of the “Stiftung Humanismus Heute”
of Baden-Württemberg for excellent performance in Latin |
| 2011/12 | Best Special Lecture: “ <i>Theoretical Particle Physics II</i> ” |
| 2016/17 | Best Special Lecture: “ <i>Introduction to Theoretical Particle Physics</i> ” |
| 2017/18 | Best Undergraduate Lecture: “ <i>Theoretical Mechanics I</i> ” |
| 2019 | Best Export Lecture: “ <i>Modern Physics for Computer Scientists</i> ” |

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Convener/Organizing Committees

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| since 2019 | Convener of the Higgs Pair Subgroup of the LHC Higgs Cross Section Working Group (LHCHXSWG) |
| since 2015 | Convener of the NMSSM Subgroup of the LHC Higgs Cross Section Working Group (LHCHXSWG) |
| 2015 | Member of the Organizing Committee for the DESY Theory Workshop |
| 12/12 - 10/17 | Convener of the Beyond the Standard Model Group of the LHCHXSWG |
| Sept 2014 | Convener of the Particle Phenomenology Session at the DESY Theory Workshop (DESY/Hamburg) |
| April/May 2014 | Convener of the Electroweak and Beyond the Standard Model Physics Group, DIS 2014 (Warsaw/Poland) |
| May 2012 | Convener of the Higgs Session at the ECFA Linear Collider Workshop 2013 (DESY/Hamburg) |
| March 2010 | Convener of the Beyond the Standard Model Group at the annual German Spring Conference of the DPG (Bonn) |
| May 2009 | Convener of the Electroweak and New Physics Session at Photon 2009 (DESY/Hamburg) |

Workshop Organization

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|----------|--|
| Oct 2019 | Organization of the KIT-NEP'19 Workshop at KIT |
| Oct 2016 | Organization of the HERAEUS Seminar <i>“The High-Energy LHC - Interplay between Precision Measurements and Searches for New Physics”</i> |
| Oct 2015 | Organization of the HEPKIT Workshop at KIT |

Referee

Deutsche Forschungsgemeinschaft; Studienstiftung des Deutschen Volkes;
Alexander von Humboldt-Stiftung, Agence Nationale de la Recherche

Journals: European Physical Journal C, International Journal of Modern Physics A,
Journal of High Energy Physics, Physics Letters B, Physical Review D

Fellowships

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|--------------------|--|
| Feb 06 - Jan 08 | Fellowship, CERN (Switzerland) |
| Oct 00 - Sept 02 | Fellowship of the European Union,
Contract number: HPRN-CT-2000-00149 |
| March 91 - June 97 | Fellowship of the “Studienstiftung des Deutschen Volkes” |