

Curriculum Vitae

Dr. Stefan Hermann Typel

Date of Birth: 10 November 1964
Place of Birth: Münster(Westfalen), Germany

Technische Universität Darmstadt, Institut für Kernphysik
Schlossgartenstraße 9, D-64289 Darmstadt, Germany

and

GSI Helmholtzzentrum für Schwerionenforschung GmbH,
Planckstraße 1, D-64291 Darmstadt, Germany

Phone: +49-6151-16-21559
Email: s.typel@gsi.de, stypel@ikp.tu-darmstadt.de

Education

25. 10. 1994

Ph. D. in Physics

Institut für Theoretische Physik I, Westfälische Wilhelms-Universität, Münster, Germany
Advisors: Prof. Dr. G. Baur (Basel, Switzerland, and Jülich, Germany) and Prof. Dr. A. Weiguny (Münster, Germany)

31. 05. 1990

Diploma in Physics

Institut für Theoretische Physik I, Westfälische Wilhelms-Universität, Münster, Germany
Advisor: Prof. Dr. A. Weiguny (Münster, Germany)

1984 - 1994

Studies in Physics, Westfälische Wilhelms-Universität, Münster, Germany

08. 06. 1984

Final secondary school examinations (Allgemeine Hochschulreife)
Gymnasium Wolbeck, Münster, Germany

1975 - 1984

Secondary education, Gymnasium Wolbeck, Münster, Germany

1971 - 1975

Primary education, Annette von Droste-Hülshoff Grundschule, Münster, Germany

Theses

Doctoral Thesis

Elektromagnetische Dissoziation in Schwerionenstößen als Informationsquelle für Strahlungseinfangreaktionen von astrophysikalischem Interesse.

(Electromagnetic dissociation in heavy-ion collisions as a source of information for radiative capture reactions of astrophysical interest.)

Westfälische Wilhelms-Universität, Münster, 1994.

Diploma Thesis

Tiefliegende Zustände und Reaktionen im Sechs-Nukleonen-System.

(Low-lying states and reactions in the six-nucleon system.)

Westfälische Wilhelms-Universität, Münster, 1990.

Professional Experience

since 01. 07. 2018

Technische Universität Darmstadt, Institut für Kernphysik, Darmstadt, Germany
Head of House-IT

since 01. 09. 2016

Technische Universität Darmstadt, Institut für Kernphysik, Darmstadt, Germany
Researcher

01. 12. 2011 - 31. 08. 2016

GSI Helmholtzzentrum für Schwerionenforschung GmbH, Darmstadt, Germany
Research Associate within the Nuclear Astrophysics Virtual Institute (NAVI) of the Helmholtz Association (HGF)

01. 11. 2011 - 30. 11. 2011

Technische Universität Darmstadt, Institut für Kernphysik, Darmstadt, Germany
Scholarship of the Helmholtz International Center (HIC) for FAIR within the LOEWE program launched by the state of Hesse

01. 03. 2008 - 31. 10. 2011

Excellence Cluster Universe, Technische Universität (TU), München, Germany
Research Associate

01. 03. 2007 - 29. 02. 2008

Grand Accélérateur National d'Ions Lourds (GANIL), Caen, France
Research Associate

01. 11. 2005 - 28. 02. 2007

Self-employed Physicist

01. 11. 2002 - 31. 10. 2005

Gesellschaft für Schwerionenforschung mbH (GSI), Darmstadt, Germany
Postdoctoral Research Associate

04. 10. 2000 - 03. 10. 2002

National Superconducting Cyclotron Laboratory (NSCL), Michigan State University (MSU), East Lansing, USA
Postdoctoral Research Associate

01. 10. 1995 - 30. 09. 2000

Gruppe für Theoretische Hadronen- und Kernphysik, Ludwig-Maximilians-Universität (LMU), München, Germany
Postdoctoral Research Associate

01. 01. 1995 - 30. 09. 1995

Institute Physique Nucléaire Théorique et Physique Mathématique, Université Libre de Bruxelles (ULB), Bruxelles, Belgium
Postdoctoral Research Associate
January - June: Marie Curie Research Fellow in the program "Human Capital & Mobility" (now "Training and Mobility of Researchers") of the European Union

01. 06. 1990 - 30. 11. 1994

Institut für Theoretische Physik, Westfälische Wilhelms-Universität (WWU), Münster, Germany
Research Assistant

01. 12. 1988 - 31. 05. 1990

Institut für Theoretische Physik, Westfälische Wilhelms-Universität (WWU), Münster, Germany
Teaching Assistant

Selection of Recent Publications

- Quark deconfinement as a supernova explosion engine for massive blue supergiant stars.*
T. Fischer, N.-U. Bastian, M.-R. Wu, P. Baklanov, E. Sorokina, S. Blinnikov, S. Typel, T. Klähn and D. Blaschke.
Nature Astronomy 2 (2018) 980.
- Equations of state for astrophysical simulations from generalized relativistic density functionals.*
S. Typel.
J. Phys. G.: Nucl. Part. Phys 45 (2018) 114001.
- Lagrange-Mesh Method for Deformed Nuclei With Relativistic Energy Density Functionals.*
S. Typel.
Frontiers in Physics 6 (2018) 73.
- A Phenomenological Equation of State of Strongly Interacting Matter with First-Order Phase Transitions and Critical Points.*
S. Typel and D. Blaschke.
Universe 4 (2018) 32.
- Relativistic Mean-Field Models with Different Parametrizations of Density Dependent Couplings.*
S. Typel.
Particles 1 (2018) 2.
- Assessing the foundation of the Trojan Horse Method.*
C. A. Bertulani, M. S. Hussein, and S. Typel.
Phys. Lett. B 776 (2018) 217.
- Peeling off neutron skins from neutron-rich nuclei: Constraints on the symmetry energy from neutron-removal cross sections.*
T. Aumann, C. A. Bertulani, F. Schindler and S. Typel.
Phys. Rev. Lett. 119 (2017) 262501.
- The State of Matter in Simulations of Core-Collapse supernovae - Reflections and Recent Developments.*
T. Fischer, N.-U. Bastian, D. Blaschke, M. Cierniak, M. Hempel, T. Klähn, G. Martinez-Pinedo, W. G. Newton, G. Röpke and S. Typel.
Publications of the Astronomical Society of Australia 34 (2017) E067.
- Mixed phase within the multi-polytrope approach to high-mass twins.*
D. Alvarez-Castillo, D. Blaschke, and S. Typel.
Astron. Nachr. 338 (2017) 1048.
- Comparison of equation of state models with different cluster dissolution mechanisms.*
H. Pais and S. Typel.
In Nuclear Particle Correlations and Cluster Physics, edited by Wolf Udo Schröder, World Scientific, pp. 95 - 132 (2017).
- Equations of state for supernovae and compact stars.*
M. Oertel, M. Hempel, T. Klähn and S. Typel.
Rev. Mod. Phys. 89 (2017) 015007.