

Saskia Demulder

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EMPLOYMENT

01/09/2025 - now: Assistant Professor in tenure track, Dept. of Quantitative Methods, CUNEF Universidad, Madrid, Spain

01/10/2022 - 31/08/2025: Post-doctoral researcher and Azrieli international research fellow, Ben Gurion University, Be'er Sheva (Israel),

07/11/2019 - 30/09/2022: Post-doctoral researcher, Max-Planck-Institut für Physik, München (Germany)

EDUCATION

2015-2019: PhD in Theoretical Physics, Vrije Universiteit Brussel and Swansea University

2013-2015: MSc in Physics and Astronomy, Vrije Universiteit Brussel

2011-2014: BSc in Mathematics, Vrije Universiteit Brussel

2010-2015: BSc in Physics and Astronomy

FIELDS OF INTEREST

Quantum Gravity, String Theory, Quantum Chaos, Complexity

PUBLICATIONS

Demulder, S. , Raml T., Lüst D.: "Navigating string theory field space with geometric flows", *JHEP* 05 (2025) 030.

Das R. N., Demulder S., Erdmenger J., Northe C.: "Spread complexity for the planar limit of holography", *JHEP* 06 (2025) 166.

Demulder S., Raml T., Lüst D.: "Topology change and non-geometry at infinite distance", JHEP 06 (2024) 079

Demulder S., Raml T.: "Poisson-Lie T-duality defects and target space fusion", JHEP 11 (2022), 165

SELECTED ACADEMIC HONOURS AND GRANTS

Azrieli international research fellow, Israel (01/09/2023 - 31/08/2025), "FWO "Aspirant" PhD fellow, Belgium (10/10/2017 - 29/06/2018), Robert Brout award, Belgium(2016), Belgian Physical Society Scientific Prize Belgium (2016)

SELECTED PRESENTATIONS

CONFERENCES

invited talk at 2nd GH Network Workshop (Würzburg, Germany, 01/07/25), Invited talk at Noncomm. and gen. geom. in string theory and gauge theory (Corfu, Greece, 18/09/24), ORIGINS guest talk, ORIGINS cluster (Munich, Germany, 29/02/24), Lectures at Young Researchers Integrability School, (Nordita, Stockholm, Sweden, 24-28/10/22), Invited talk at Integrability, Dualities and Deformations (Berlin, Germany, 03/08/22), Talk at Lie Theory and Poisson Geometry, CIRM, (Marseille, France, 11/01/22)

SEMINARS

TPIII Würzburg U, Germany (01/07/25), University of Torino, Italy (15/04/25), Milan Bicocca, Italy (online) (11/02/25), ICMAT, Madrid, Spain (10/12/24), ETH Zürich, Switzerland (17/04/24), King's College London, United Kingdom (12/02/24), LaPTh, Annecy, France (30/11/23), U. Würzburg, Germany (06/12/22), Seminar at Trinity College Dublin (online), Ireland (06/12/21)

PROFESSIONAL ACTIVITIES

Co-supervisor of one (ongoing) PhD thesis, two MSc theses, one BSc thesis and scientific advisor of one visiting PhD student.

Co-organiser of more than 10 international scientific conferences, workshops or doctoral schools.

Oct 2023 - Oct 2027: Training and schools coordinator for the COST action CA22113 - Fundamental challenges in theoretical physics

June 2023 - now: Co-redactor of the genHET newsletter