MICHAEL KORSMEIER

I am interested in astroparticle physics and the search for the nature dark matter. I have worked on cosmic-ray propagation with a special emphasis on antiprotons and antinucleons and the interpretation of the gamma-ray observation, in particular, focussing on the unresolved gamma-ray background. A related interests is the interpretation of signatures and constraints from astroparticle physics in theories beyond the standard model of particle physics.

PERSONAL INFORMATION

Born in Germany, 26 November 1990

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EMPLOYMENT

2020–present **The Oskar Klein Centre, Stockholm University**

Postdoc Focus: Theoretical astroparticle physics and the search for dark matter
Reference: Tim LINDEN · linden@fysik.su.se

EDUCATION

2016–2020 **University of Turin and RWTH Aachen University**

Ph.D. position Focus: Theoretical astroparticle physics of cosmic radiation and the search for dark matter signatures
The Ph.D. position is joint between the University of Turin and the RWTH Aachen University under a *Cotutelle agreement* which allows a joint degree between the two universities.
Reference: Fiorenza DONATO · donato@to.infn.it
Michael KRÄMER · mkraemer@physik.rwth-aachen.de

2014–2016 **RWTH Aachen University**

Masters of Science 1.0 – excellent · *Physics*
Focus of study: Quantum field theories and gauge theories
Thesis: *Global analysis of cosmic-ray propagation in the light of AMS-02 and the impact on indirect detection of dark matter*
Reference: Michael KRÄMER · mkraemer@physik.rwth-aachen.de

2011–2014 **RWTH Aachen University**

Bachelor of Science 1.3 – excellent · *Physics*
Thesis: *Energy measurement of cosmic rays with the transition radiation detector of AMS-02 on the International Space Station*
Reference: Henning GAST · henning@physik.rwth-aachen.de

2010 **Gymnasium Delbrück**

Abitur 1.0 – excellent · *German high school grade*

WORK EXPERIENCE

2012–2014   I. Physikalisches Institut B, RWTH Aachen University

Research assistant   I worked at the AMS-02 group in Aachen where I was entrusted with data control as well as with physics analysis.
Reference: Henning GAST · henning@physik.rwth-aachen.de

COMPUTER SKILLS

Advanced   PYTHON, C, C++, MPI, OpenMP, HTML, PHP

Basic   JavaScript, MySQL, Java

AWARDS

Dean's List   Award from the RWTH Aachen University for the academic year 2011/2012 which is granted to the best five percent of all students.

ADDITIONAL SKILLS

Languages   GERMAN · mother tongue

ENGLISH · fluent

Interests   Sailing (dinghy racing, board member of the German and International FJ class)
Skiing
Hiking

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