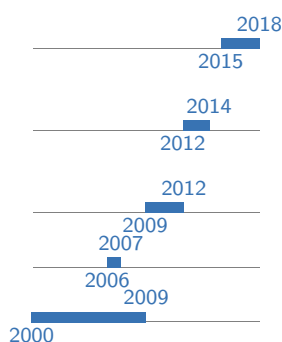


Andreas R. Weiden

Date of Birth December 10th 1989 in Cologne, Germany

Education



PhD (Physics), *University of Zürich*, Zürich, LHCb.

estimated date of graduation: 31.12.2018

Master of Science (Physics), *Ruprecht-Karls University*, Heidelberg.

Specialization in Experimental Particle Physics

Bachelor of Science (Physics), *Ruprecht-Karls University*, Heidelberg.

Highschool Year Abroad, *Ord Jr.-Sr. Highschool*, Ord, Nebraska, USA.

Abitur (Highschool Diploma), *Gymnasium*, Erftstadt-Lechenich.

Specialization in Physics and Mathematics

PhD Thesis

Title *Double-differential inclusive $Z/\gamma^* \rightarrow \mu\mu$ production cross-section at LHCb*
Supervisors Professor Dr. Ulrich Straumann & Dr. Katharina Müller

Master Thesis

Title *Measurement of direct CP-violation in prompt $D^0 \rightarrow K^- K^+$ and $D^0 \rightarrow \pi^- \pi^+$ decays at LHCb*
Supervisors Professor Dr. Ulrich Uwer & Professor Dr. André Schöning
Description Measurement of $\Delta A_{CP} \equiv A_{CP}(KK) - A_{CP}(\pi\pi)$ using 2011 and 2012 data. Uses prompt $D^{*\pm} \rightarrow D^0(\bar{D}^0)\pi_s^\pm$ decays to tag the initial flavor.

Bachelor Thesis

Original Title *Zeitintegriertes Verhältnis von $D^0 \rightarrow K^+\pi^-$ zu $D^0 \rightarrow K^-\pi^+$ Zerfällen bei LHCb*
English Title *Time-integrated ratio of $D^0 \rightarrow K^+\pi^-$ to $D^0 \rightarrow K^-\pi^+$ decays at LHCb*
Supervisors Professor Dr. Ulrich Uwer & Professor Dr. André Schöning
Description Measurement of the time-integrated ratio of $D^0 \rightarrow K^+\pi^-$ and $D^0 \rightarrow K^-\pi^+$ decays, which is used for the time-dependent measurement of D^0 - \bar{D}^0 oscillations.

Am Wasser 10 – 8600 Dübendorf – Switzerland

☎ +41 (0)786 8674 30 • ✉ andreas.weiden@gmail.com

Experience

Vocational

Jul – Sep 2013

Summer Student, *H1, Deutsches Elektronen-Synchrotron (DESY)*, Hamburg, 8 weeks.

Using the elastic $\gamma^* p \rightarrow J/\psi p$ cross-section to probe the small x gluon density.

2014

2012

Lab Course Tutor, *Physikalisches Institut*, Heidelberg.

Physics lab course for physicists (Aug 2012) and physics minors (Feb 2013, Feb 2014).

Dec 2011 – Apr 2012

Intern, *LHCb, Physikalisches Institut*, Heidelberg, prior to Bachelor thesis.

Background studies in wrong-sign and right-sign D^0 -decays.

Jun – Jul 2009

Summer Intern, *FOPI, Gesellschaft für Schwerionenforschung (GSI)*, Darmstadt, 6 weeks.

Building and testing of a prototype differential RPC using cosmic rays.

Jun 2008

Summer Intern, *WASA, Forschungszentrum Jülich*, Jülich, 2 weeks.

Light-attenuation in aging plastic scintillators.

Miscellaneous

2015

2014

Treasurer (Bundesvorstand für Finanzen), *young German Physical Society (junge Deutsche Physikalische Gesellschaft, jDPG)*.

Administration of finances for the german-wide jDPG, a working group of the DPG (German Physical Society).

2014

2012

Chairman, *Local organization committee for the "International Conference of Physics Students" (ICPS) 2014*, Heidelberg.

Annual conference for physics students which is entirely organized by students, held by IAPS, 2014 organized by the jDPG.

2014

2012

Treasurer, *Regional Group Heidelberg of the jDPG and YoungMinds Section Heidelberg of the EPS*, in personal union.

Administration of finances, applying for financing at the jDPG or EPS. Active member since Mar 2011. As a member, organization of excursions and seminars preparing students studying physics for jobs in research or in commerce.

2012

2010

Aide, *Explore Science*, Klaus-Tschira Foundation.

Stand and experiments supervision during annual science fair which is aimed at making children interested in science and mathematics.

Computer skills

Basic FORTRAN, MATHEMATICA

Intermediate C, HTML, PHP, R, \LaTeX , Microsoft Windows

Advanced PYTHON, C++, ROOT, ROOFIT, GNU/Linux

Languages

German Mothertongue

English Fluent

Cambridge Certificate in Advanced English (CAE), European Level C1

Russian Basic

European Level B1

Latin Basic

Latinum

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