


Principal Investigator	Prof. Dr. Beate Heinemann, *1970	
	Scientific degree	1996 Diploma in Physics at Universität Hamburg 1999 Doctorate in Physics at Universität Hamburg
	Previous position	1999-2002 Postdoc at Univ. of Liverpool, UK 2003-2006 Lecturer at Univ. of Liverpool, UK 2006-2012 Associate Professor at UC Berkeley and Staff at Lawrence Berkeley Nat. Lab, USA 2012-2016 Full Professor at UC Berkeley and Senior Staff at Lawrence Berkeley Nat. Lab, USA 2013-2017 Deputy Spokesperson of ATLAS collaboration
	Current position	Since 2016 Leading Scientist at DESY and W3 Professor at Albert-Ludwigs-Universität Freiburg
	Prizes, Awards Selected Memberships	Since 2009 American Physical Society (APS) Fellow 2014-2016 Luis Alvarez memorial Chair, UC Berkeley 1999-2004 PPARC fellowships (postdoc and advanced) 2004-2006 Royal Society fellow, UK 2005/2006 Physics Coordinator of CDF 2000 Award for best thesis in physics (Uni Hamburg) Since 2011 MIT LNS Dean Advisory committee, USA Since 2016 LBNC review committee at FNAL, USA Since 2017 European Physics Society HEPP Board Since 2017 Adv. Board of Director Frascati, Italy Since 2017 CERN scientific policy committee Since 2018 Eur. Strategy Physics Preparatory Group
Recent research topics	<ul style="list-style-type: none">• Analysis of data recorded with the ATLAS experiment at the LHC• Pattern recognition for charged particle tracking (initiated new annual topical workshop series “Connecting the Dot” in 2015: https://indico.physics.lbl.gov/indico/event/149/)• Measurement of luminosity using tracks at ATLAS• Upgrade of the silicon tracking detector of the ATLAS experiment for the High Luminosity LHC• Design of a new experiment to probe QED in a novel regime using electron-laser interactions	
Publication (5 most important)		
<p>[1] ATLAS Collaboration, <i>Search for metastable heavy charged particles with large ionization energy loss in pp collisions at $\sqrt{s}=13$ TeV using the ATLAS detector</i>, Phys. Rev. D 93 (2016) 112015.</p> <p>[2] ATLAS Collaboration, <i>Evidence for Electroweak Production of W^+W^{*jj} in pp Collisions at $\sqrt{s}=8$ TeV with the ATLAS detector</i>, Phys. Rev. Lett. 113 (2014) 141803.</p> <p>[3] ATLAS Collaboration, <i>A neural network clustering algorithm for the ATLAS silicon pixel detector</i>, JINST 9 (2014) P09009.</p> <p>[4] CDF Collaboration, <i>Measurement of $W\gamma$ and $Z\gamma$ Production in p anti-p Collisions at $\sqrt{s}=1.96$ TeV</i>, Phys. Rev. Lett. 94 (2005) 041803.</p> <p>[5] A. Bhatti, F. Canelli, B. Heinemann <i>et al.</i>, <i>Determination of the Jet Energy Scale at the Collider Detector at Fermilab</i>, Nucl. Instrum. Meth. A 566 (2006) 375.</p>		