

Collaborator Stephan I. Böttcher

Project Responsibility: Instrument Scientist

Institution: **Christian Albrechts-Universität zu Kiel**
Inst. f. Experimentelle u. Angewandte Physik

Education:

PhD, Experimental high energy physics,
Universität Hamburg, 1996.



Professional Background:

High energy physics instrumentation. ZEUS Collaboration, DESY, Hamburg (1990-1993). ATLAS Collaboration, Tel Aviv University (1994-1998), Columbia University (1998-2001).

Extraterrestrial physics instrumentation. Universität Kiel (2002-).

Relevant Experience:

As a member of the ZEUS collaboration at DESY, Hamburg, I was responsible for the performance and radiation hardness qualification of mixed signal ASICs for the ZEUS calorimeter front-end-electronics.

My PhD thesis is about ionizing radiation effects in MOS structures.

As a member of the ATLAS collaboration at Nevis Labs, Columbia University, I was doing the design of three digital ASICs for the ATLAS LAr calorimeter front-end boards (HDL, synthesis, layout, verification). Further, I participated in radiation hardness verification of these ASICs and COTS for this board.

At Universität Kiel, I am instrument scientist for the SEPT instruments, on the STEREO mission, where I participated in the design and assembly of the instrument, environmental tests, Geant4 physics modeling, some flight software, and data analysis.

As CoI for MSL RAD, I am doing instrument design, front-end-electronics design, physics modeling, flight FPGA firmware, prototype assembly, detector tests and qualification.