

AKjDPG 4: yHEP/jDPG Physicists Beyond Academia II

Time: Tuesday 19:00–21:00

Location: AM 00.014

Invited Talk AKjDPG 4.1 Tue 19:00 AM 00.014
from a nuclear physicist to a nuclear instrumentation architect — ●BANU OEZEL TASHENOV — Framatome GmbH, Erlangen, Germany

In this invited talk, I will introduce my professional journey as a nuclear physicist, highlighting the key stages of my education, career development, and transition into my current role in industry.

I will outline my education and early research experience in experimental nuclear physics, highlighting how this training influenced my analytical thinking and problem-solving approach.

The talk will then focus on my professional experience beyond academia, including my work at Framatome GmbH, where I currently serve as a Nuclear Instrumentation Architect. I will describe the mission of the company, the nature of our work, ongoing projects, my current responsibilities, and how physics-based thinking contributes to real-world applications and technological innovation.

This presentation aims to provide an overview of my personal and professional path, while offering perspective on career development for nuclear physicists working at the interface of science, technology, and industry.

Invited Talk AKjDPG 4.2 Tue 19:25 AM 00.014
From ATLAS to Banking — ●ELIAS RÜTTINGER — Deutsche Kreditbank AG

Although many physicists do not plan it initially, their professional paths often lead outside academic research. This talk traces my tran-

sition from high-energy physics into the banking sector, with a focus on applied data science at Deutsche Kreditbank (DKB). After completing a PhD, I first worked at a project management organization for the German Federal Ministry for Economic Affairs and Climate Action (BMWi), evaluating industrial research projects. I then joined DKB in risk controlling, where I worked on analytical tasks and Monte Carlo simulations for practical risk assessment. In a subsequent step, my work shifted toward fraud prevention, where I now develop machine-learning models for operational use. The talk illustrates how methods familiar from physics – such as modeling, statistics, and software development – can be transferred to a regulated, industry-driven environment and create tangible impact.

Invited Talk AKjDPG 4.3 Tue 19:50 AM 00.014
Podium discussion with the three speakers — ●MICHAEL LUPBERGER — Albert-Ludwigs-Universität Freiburg, Freiburg, Germany — yHEP

A podium discussion follows the presentations of the three speakers. They are all former physicists from our field now working outside academia. The audience is welcome to ask questions, in particular regarding e.g. career path, skills learned in physics usable in the commercial sector, working atmosphere, decision-making for leaving academia and much more. I will moderate the discussion and co-chair the presentations of the speakers.

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