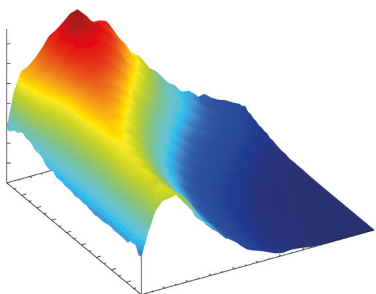


My Services

- Dose rate and shielding calculations
- Activation calculations
- Burnup calculations for nuclear fuel
- Criticality assessments
- Activity estimation based on dose rate measurements
- Optimization studies for nuclear and particle physics applications



Your Benefits

- Validated and approved software packages and databases: **MCNP, SCALE, ENDF, IAEA**, etc.
- **Professional reports** for direct use in the approval process and appealing visualization of the results
- **Direct communication** and **agile project management** from planning and approval to implementation of your projects

D-NUCS

Dr. Jan Philipp Dabruck
Weitlingstr. 73
10317 Berlin
Germany

Phone: +49 176 41244774
Email: dabruck@d-nucs.de

d-nucs.de



Dr. rer. nat. Jan Philipp Dabruck

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Simulations for Nuclear Applications

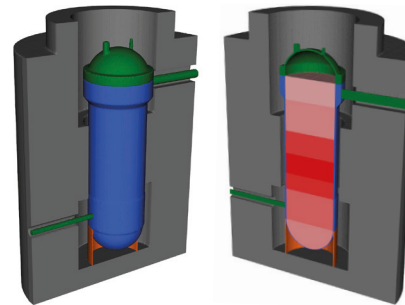
Decommissioning & Dismantling
Waste Management | Radiation Protection

Selected Projects

Decommissioning and Dismantling of a Nuclear Power Plant



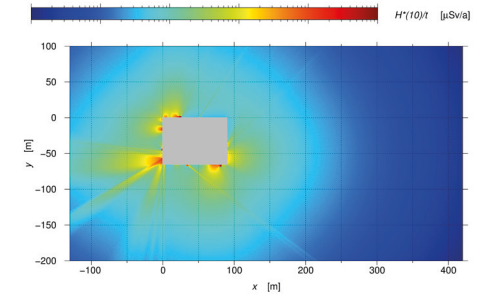
- Activation calculations & decay analyses
- Dose rate and shielding calculations for radiation protection concepts and collective dose estimates in the entire reactor building
- Optimization of the disassembly of activated or contaminated components and waste container planning



Dose rate calculations inside and in the vicinity of nuclear facilities



- High-resolution dose rate distributions and multidimensional parameter studies
- For approval procedures, collective dose assessments and design of additional radiation protection measures
- For interim storage facilities, waste treatment buildings, and accelerator facilities



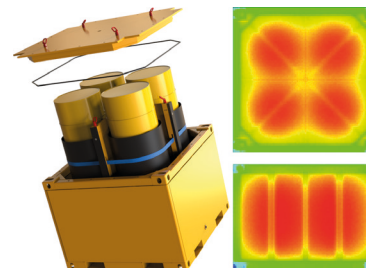
Dr. rer. nat. Jan Philipp Dabruck

As an independent engineer and physicist, numerical calculations for the dismantling of nuclear facilities and for radiation protection are a key focus of my work. My clients include national and international companies in the nuclear industry as well as research institutions.

Development of nuclear transport and storage containers



- Planning of reasonable internal shielding configurations
- Cask for high-level waste, e.g. CSD-V canisters for vitrified waste
- Container for low and intermediate level waste, e.g. for drums or loose material



Cooperations

steag

Eckert & Ziegler

ATKINS
Member of the SNC-Lavalin Group

NUCLEAR SHIELDS

ANT

TECHNISCHE UNIVERSITÄT DRESDEN
WKET

JENS
Jülich Centre for Neutron Science

els
Lehrstuhl für Endlagersicherheit

RWTH AACHEN UNIVERSITY