

## Aushang

### Institut für Neutronenphysik und Reaktortechnik

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Unser Zeichen: ISC  
Datum: 10.11.2025



### Einladung zum Seminar über „Nukleare Energieerzeugung“

**Zeit:** Montag, 1. Dezember 2025, 11:00 Uhr

**Ort:** Karlsruher Institut für Technologie, Hermann-von-Helmholtz-Platz 1  
76344 Eggenstein-Leopoldshafen, INR, Bau 521, Raum 302

**Referent:** Herr Dr. Alexei Miassoedov, IAEA, Wien

**Titel:** IAEA Activities Supporting Advanced Reactor Technology Development

#### Abstract:

The International Atomic Energy Agency (IAEA) supports its Member States in advancing safe, secure, and sustainable nuclear energy systems through a broad range of coordinated activities in reactor technology development. This lecture will present an overview of IAEA initiatives supporting the development and deployment of advanced reactor concepts. It will summarize ongoing and recently completed coordinated research projects, technical meetings, and training programmes that strengthen Member States' capabilities in areas such as modelling and simulation, thermal-hydraulics, passive safety, and severe accident analysis and management. Current activities addressing severe accident management guidelines, simulation tools, and validation of safety features will be outlined. The lecture will also provide general information on the IAEA's ONCORE initiative promoting open-source tools for reactor analysis and will briefly touch on emerging applications of artificial intelligence in nuclear design and operation. Overall, the presentation will illustrate how the IAEA's collaborative research and capacity-building efforts contribute to improving the technical basis, safety, and performance of advanced reactor technologies worldwide.

Hinweis: Alle auswärtigen Besucher des Seminars werden gebeten, ihren gültigen Personalausweis oder Reisepass mitzubringen