



FISPACT-II (currently at release version 4.0) is an enhanced multi-physics platform providing a wide variety of advanced simulation methods and employing the most up-to-date, TENDL-2017, ENDF/B-VIII.0, JENDL-4.0, JEFF-3.3, etc., enhanced nuclear data forms for neutron, proton, alpha, deuteron or gamma particles interactions. FISPACT-II is a true 21st century simulation platform of observables for nuclear sciences and technology, written in object-style Fortran with full dynamic memory allocation and uncertainty quantification and propagation, with applications in:

- Magnetic and inertial confinement fusion
- Advanced fission Gen IV and beyond
- Advanced energy and fuel systems
- High energy and accelerator physics
- Medical applications, isotope production
- Earth exploration, astrophysics
- Homeland security, materials science
- And more...

<http://fispact.ukaea.uk/>

Program

Day one: 9:00-12:00, 14:00-17:00

- Session 1
Introduction to inventory simulations with FISPACT-II
- Session 2
Running FISPACT-II: Getting Started

Day Two: 9:00-12:00, 14:00-17:00

- Session 3
FISPACT-II: Uncertainties, Pathways, and all things nice
Application case-study
- Session 4
Running FISPACT-II: Advanced Usage

Day Three: 9:00-12:00, 14:00-17:00

- Session 5
FISPACT-II applications: material activation, damage and waste
- Session 6
Application case-studies, FISPACT-II integration

FISPACT-II license can only be granted to eligible personnel of OECD NEA data bank member countries organisation.