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 FISPACT-II: An advanced simulation platform for nuclear observables
- Session 2
  Tutorial & exercises: Getting started with FISPACT-II

Day Two: 9:00-12:00, 14:00-17:00
- Session 3
  FISPACT-II validation and verification (V&V): Fusion decay-heat benchmark for nuclear data validation
  Lectures on the importance of nuclear data
- Session 4
  Running FISPACT-II: extended usage

Day Three: 9:00-12:00, 14:00-17:00
- Session 5
  Case study: Self-shielding & spatial variation – tungsten in fusion
  Usage example: waste assessment of fusion steels
  Tutorial: Advanced Usage
- Session 6
  Advanced applications: integration, scoping and damage metrics
  FISPACT-II – Future Developments

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