



Prof. Dr. Yican Wu

Director, Institute of Nuclear Energy Safety Technology,
Director, Key Lab. of Neutronics and Radiation Safety,
Deputy Director, ADS Research Center,
Chinese Academy of Sciences
Leader, FDS Team

✧ **Education**

- Ph.D., Nuclear Energy Science & Engineering, Institute of Plasma Physics, Chinese Academy of Sciences, 1992
- M.S., Reactor Physics, Xi'an Jiaotong University, 1988
- B.S., Reactor Engineering & Safety Xi'an Jiaotong University, 1985

✧ **Research Areas**

Professor Wu's research includes both basic and applied research, involves theory, modeling, experiments, design, and analysis of advanced nuclear systems. The research can be divided into 6 areas: Nuclear Reactor Physics, Nuclear Reactor Materials, Nuclear Reactor Engineering, Systems Engineering and Safety, Digital Simulation and Visualization and Radiation Medical Physics.

✧ **Research Projects**

As the leader/chief-scientist of projects, he was/is in charge of more than 20 scientific research projects such as: International cooperation projects under the IAEA/IEA/ITER organizations, National Basic Research and High-Tech R&D projects (863) under MOST, National Fundamental Research Projects under NSFC, National Mega-projects of Science & Engineering under SCDR, Fundamental Research Projects under CAS and so on.

✧ **Key Research Topics include:**

- Conceptual Design of Advanced Reactors (Fusion/Fission/ADS etc.)
- Fusion Reactor Blanket Technology Development (Liquid Blanket etc.)
- Low Activation Reactor Material Development (CLAM steel etc.)
- Fusion/Fission/Hybrid Neutronics (Theory/Modeling/Codes etc.)
- Accurate/Advanced Radiotherapy Physics and Technology
- Reliability and Safety of Complex System
-

✧ **Key Professional Activities**

International:

- Consultant, International Atomic Energy Agency (IAEA) Compact Fusion-Fission Hybrid System
- Expert, TBM Program Committee of ITER International Organization
- Member, Working Group on Licensing for Design Review, ITER International Organization
- Chair, International Energy Agency (IEA) Executive Committee of Implementing Agreement on

Environmental, Safety and Economic Aspects of Fusion Power

- Member, IEA Executive Committee of Implementing Agreement on Nuclear Technology of Fusion Reactors
- Member, Computational Medical Physics Working Group (CMPWG) of American Nuclear Society (ANS)

Domestic:

- Vice Chairman, China Society of Radiation Protection
- Chairman, Committee of Reactor Physics and Nuclear Material, CNPS
- Vice Chairman, Committee of Computer Technology, China Society of Nuclear Electronics & Detection Technology
- Executive Member, China Society of Radiation Physics, CNS
- Member, Expert Committee of National Magnetic Confinement Fusion
- Member, Technical Committee of Standardization for Nuclear Energy, NEA
- Member, Expert Committee of Nuclear Safety and Environment, Ministry of Environmental Protection of China
-

✧ **Academic Publications**

Professor Wu has published more than 200 papers in academic journals and international conferences, three of them were selected into “Essential Science Indicators (ESI)” and “highly Cited Papers (last 10 years)”.