

COMMENTS



We are indebted to Professor Mohamed Abdou for agreeing to undertake the development of this special coverage on fusion neutronics integral experiments for *Fusion Technology (FT)*. Professor Abdou served as the guest editor, and he and his staff played a major role in selecting the papers and assisting in the review process for this issue. Because of his success in obtaining key papers on this topic, we have had to publish them in two consecutive issues of *FT*. Eight papers appear in this issue, and the following papers will appear in the September issue: “Nuclear Analysis of Integral Experiments on a Li_2O Test Assembly with Local Heterogeneities Utilizing a 14-MeV Neutron Source,” “Neutronics Integral Experiments of Simulated Fusion Reactor Blanket with Various Beryllium Configurations Using Deuterium-Tritium Neutrons,” “A Summary of Benchmark Experiments for Simulation of Fusion Reactors Using an Annular Blanket with a Line Deuterium-Tritium Source,” “Concept and Characteristics of a Simulated Line Source for Annular Blanket Experiments Using an Accelerator-Based Deuterium-Tritium Neutron Source,” “The Nuclear Analysis of an Annular Li_2O Blanket System Surrounding an Artificially Simulated 14-MeV Line Source and Comparison of Calculations to Measurements,” “Neutronics Integral Experiments of Annular Blanket System Simulating Tokamak Reactor Configuration,” “Fusion Integral Experiments and Analysis and the Determination of Design Safety Factors – I: Methodology,” “Fusion Integral Experiments and Analysis and the Determination of Design Safety Factors – II: Application to the Prediction Uncertainty of Tritium Production Rate from the U.S. DOE/JAERI Collaborative Program on Fusion Blanket Neutronics.”

Many of us have been aware of the Japan Atomic Energy Research Institute (JAERI)/U.S. Department of Energy (U.S. DOE) collaborative program on fusion neutronics. Yet, unless one happened to be a member of the program, it has been difficult to obtain a comprehensive view of the results from this work. For that reason, we felt it would be important for the fusion community to have full access to the key results obtained over the course of this 10-yr fusion collaboration. In this issue, Professor Abdou has pulled together papers on almost two-dozen integral experiments carried out in the JAERI/U.S. DOE program. The data presented should be of lasting value to scientists and engineers working on future fusion devices.

Again, we wish to thank Professor Abdou, his staff, the authors, and the reviewers for the hard work and patient diligence required to assemble and publish this very important collection of papers on fusion neutronics integral experiments.

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