

PEBBLE BED RACTOR DESIGN DEVELOPMENT FOR INDONESIA

Monday, 3 November 2025 13:45 (15 minutes)

A paper that presents the learning process of using the HCP, parameterized through benchmarking against several existing pebble bed reactor designs such as HTR-10 and HTR-PM. Subsequently, an analysis was conducted on several parameters, including excess reactivity, radionuclide content, and pebble fuel consumption, for each variation of reactor geometry design in order to determine the most optimal design.

Technical Track

Reactor Physics

Primary author: NICOLAS, Yesaya (Bandung Institute of Technology)

Co-author: IRWANTO, Dwi (Bandung Institute of Technology)

Session Classification: Reactor Physics