Nuclear Reactor Physics and Fusion Energy Science

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1. Study of reactor calculation method for graphite moderated reactor
2. Conceptual study of next-generation nuclear reactor core design
3. Study on nuclear plus interference scattering effect in burning plasmas
4. Study on nuclear transmutation and tritium production using high-temperature gas-cooled reactor

As an extramural education of nuclear reactor physics, we cooperate to conduct a joint reactor laboratory course of graduate level offered every summer by 12 associated Japanese universities, with the use of a light-water-moderated core (C-core) installed at the Kyoto University Critical Assembly (KUCA). A photograph of the C-core is shown above (from ISBN978-4-87698-977-5).