

Status of Accelerator Driven Systems Research and Technology Development



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Partitioning and transmutation (P&T) technology of long lived radioactive nuclides such as minor actinides (MAs) will be a promising technology to reduce the burden of the geological disposal of the high-level radioactive waste (HLW). The Japan Atomic Energy Agency (JAEA) has been continuously performing research and development (R&D) on the P&T technology. The R&D on the P&T technology in JAEA is based on two concepts: one is the homogeneous recycling of MA in fast breeder reactors (FBRs) and the other is the dedicated MA transmutation cycle, "double-strata" strategy, using an accelerator-driven system (ADS). In this presentation, the current status of the R&D for the ADS in JAEA will be introduced.

Presenter: SUGAWARA, Takanori (Japan Atomic Energy Agency)

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