Utilization and Promotion of Covariance Data of Nuclear Data 共分散データの活用促進に向けて

Friday, 19 November 2021 09:30 (30 minutes)

A lot of works on uncertainty quantification of various parameters of nuclear systems have been actively carried out in recent years, and importance of covariance data of nuclear data have been recognized in the nuclear engineering community. In order to promote covariance data application to actual problems such as design studies and safety assessments of nuclear systems, the Covariance Data Use Promotion Working Group was established under the JENDL committee in FY2018. Information exchanges, discussions and setting of required future works had been done among domestic experts on the nuclear data measurement/evaluation/application fields through the activities of this working group, and a final report has been published this year as an official JAEA report. Several issues about covariance data of nuclear data, which were discussed in the meeting of this working group, are presented in this talk. In addition, review of the previous works about sensitivity analyses, uncertainty quantification, and data assimilation is presented.

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Session Classification: Current Status and Prospects of Nuclear Data Study 2 核データ研究の現状と展望 2