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**Seminarium Zakładu Energetyki Jądrowej i Analiz Środowiska (UZ3)
Departament Badań Układów Złożonych (DUZ)**

Wtorek: **25.01.2022**
11:30

Eleonora Skrzypek

**Mechanistic source term estimates simplified parametric model for the
HTGR prismatic reactor for normal operation state on the example of
TeResa preconceptual design core releases**

Abstract:

Releases during normal operation and their assessment are a priority for the initial reactor design. The key issue, apart from the necessity to demonstrate the possible use of the HTGR technology in Poland, is to ensure safety for employees and operators of the reactor and to limit the doses, to which they will be exposed during normal operation. The determination of releases during normal operation and emergency events to the environment becomes an important aspect, that is subject of verification by the nuclear regulatory authority before issuing a building permit and commissioning a potential unit. Therefore, the design of the TeResa reactor has to be adapted to the adopted standards necessary to be met.

In the seminar the mechanistic source term estimates simplified parametric model for the HTGR prismatic reactor during normal operation will be presented. The model will be used to evaluate the core and environmental releases, based on the available data. The presented results of the estimation, according to the analysis, are not exceeding the prescribed standards and will guarantee social acceptance for the construction of the reactor.

Serdecznie zapraszamy
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