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## Fast reactor SNF reprocessing for closed nuclear fuel cycle

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Closed nuclear fuel cycle (CNFC) with inherent safety fast reactors (FR) is a new integrated product in the branch of atomic energy. A pilot demonstration power complex with reactor unit (BREST-OD-300) with lead coolant is under construction at the Siberian Chemical Combine in frame of the “PRORYV” project. This pilot demonstration power complex includes not only fast reactor but also facility for fuel fabrication/refabrication and facility for mixed uranium-plutonium nitride (MNIT) spent nuclear fuel (SNF) reprocessing and radwaste management. Integrated system of models and codes for the coordinated simulation of different processes and phenomena for CNFC technologies are also under development.

### Do you wish to enter the YGE SFM19 Challenge?

Yes

### Country or International Organization

Russian Federation

**Primary authors:** Dr SHADRIN, Andrei (ITCP “PRORYV”); DVOEGLAZOV, Konstantin (Institution Innovation and Technology Center by “PRORYV” Project); Dr KASCHEEV, Vladimir (Bochvar Institute); VIDANOV, Vitaliy (INSTITUTION «ITC «PRORYV» PROJECT»); Dr SHMIDT, Olga (ITCP “Proryv”); Dr USTINOV, Oleg (Bochvar Institute); Dr VOLK, Vladimir (Bochvar Institute); Dr MOCHALOV, Yurii (ITCP “PRORYV”)

**Presenter:** Dr SHADRIN, Andrei (ITCP “PRORYV”)

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