ITER AS A BASIS FOR CREATION OF THE DATABASE FOR FUSION TECHNOLOGIES AND RESEARCH IN RUSSIA [[1]](#footnote-1)\*)

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A knowledge classification approach for Russian national database of fusion technologies and research is formulated with an emphasis on ITER project. The database is to ensure structured storage, search and analysis of information on controlled thermonuclear synthesis. The knowledge database under development will take into account technological, research and development experience of domestic and foreign fusion facilities, available design and engineering documentation of ITER plant and general facilities and laboratories taking part in the project.

As ITER project has a long lifecycle, the international fusion energy organization shows an increasing interest in knowledge management approaches. To take into account this trend as a part of the work, the methods of knowledge management in big international technological projects and companies (Rosatom) were analyzed, as well as IAEA recommendations on scientific aspects of fusion research. The general information on ITER plant and its technological segments were studied taking into account systems supplied by Russian Federation. The key principles of organization for national database of fusion technologies and research and its technical specifications are presented in this work based on the ITER project.

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1. \*) [abstracts of this report in Russian](http://www.fpl.gpi.ru/Zvenigorod/XLVII/E/ru/JI-Semenov.docx) [↑](#footnote-ref-1)