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Spherical Tokamak Globus-M2: Design, Integration, Construction

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The Globus-M spherical tokamak has demonstrated practically all of the project objectives during the 15-year period of operation. The main factor limiting further enhancement of plasma parameters is a relatively low toroidal magnetic field. The increasing of the magnetic field up to 1.0 T together with the plasma current up to 0.5 MA will result in the significant extension of the operating parameters in the upgraded Globus-M2 machine. The experimental program will be focused on plasma heating and non-inductive current drive and will serve creation of physical and technological base for the compact fusion neutron source development. In this presentation we describe the construction of new magnets and basic features of Globus-M2 experiment. The work current status and plans are outlined.

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