Contribution ID: **533**

Status and

JT-60SA is a highly shaped large supercondu
tribute to early realization of fusion energy
ITER in resolving key physics and engineer
ing, current drive, momentum input, stabilit
divertor, fuelling, pumping, etc) .

Fabrication and installation of components a
gressing towards start of operation in 2020.
EU (ENEA in Italy, and CEA in France) after
inter-coil structure at CEA Saclay. The 340
surrounding VV has been welded accuratel
Manufacture of all the six EF coils have be
Commissioning of the cryogenic system fro
ature Superconducting current leads (in tota
the power supply system (ENEA, RFX, CEA
the Cryostat Vessel Body is also reaching its

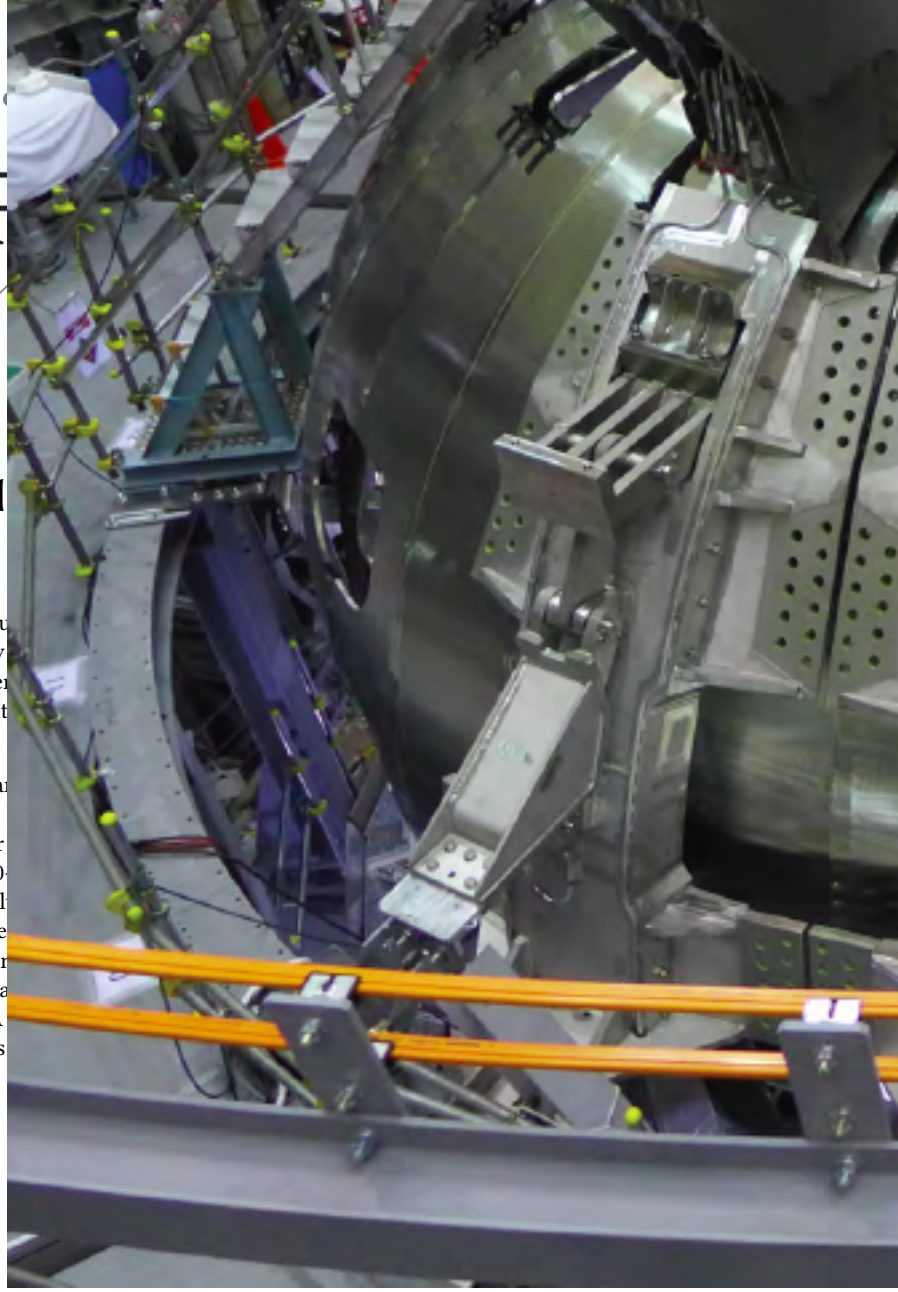

Figure 1: Fig. 1 Four TF coils have been installed around the Vacuum Vessel of JT-60SA (Mar. 2017)

Fig. 1 Four TF coils have been installed around the Vacuum Vessel of JT-60SA (Mar. 2017)

The JT-60SA Research Plan (SARP) ver. 3.3 was issued in March 2016 by 378 co-authors (JA 160 (16 institutes), EU 213 (14 countries, 30 institutes) and the STP-PT (5). The main revision point of ver. 3.3 is the update of EU-DEMOs and JA-DEMO parameters. The revision made it clear that JT-60SA covers wide research areas for DEMO, both pulsed and steady-state operations. The fifth JT-60SA Research Coordination Meeting (RCM) was held at QST Naka in May 2016. Contribution of JT-60SA to ITER was emphasized in relation to the expected delay of ITER. The physics R&D priorities in JT-60SA fulfilling ITER needs were suggested by the ITER Organization and discussed by all of the participants. Critical issues, such as disruption mitigation, L-H threshold power, ELM mitigation, diagnostic R&D, should be tested in JT-60SA. It became a consensus of the JT-60SA research unit to modify the basic strategy of the Integrated Research Phase II (˜2030) of JT-60SA so as to start with full coverage of Tungsten divertor and Tungsten first wall and accompany the initial heating experiments of ITER.

Eligible for student paper award?

No

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Track Classification: Experimental devices