Physics and operation oriented activities in preparation of the JT-60SA tokamak exploitation

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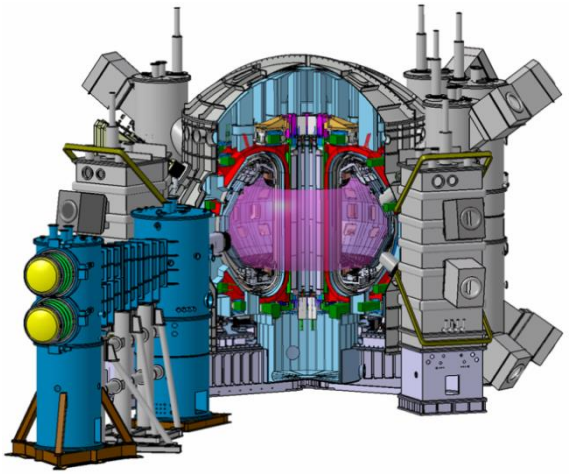
- The **JT-60SA** tokamak, being built jointly by Europe and Japan, is due to **start operation in 2019**.
- JT-60SA is particularly suited for experimental investigation of **high beta** regimes, **fast ion** physics, **control of high performance** scenarios over **long pulses**.
- For an efficient start of the experiments, a broad set of preparation activities are carried out in a coordinated way by a joint Japan-EU **JT-60SA Research Unit** :
  - the elaboration of the **JT-60SA Research Plan** *http://www.jt60sa.org/pdfs/JT-60SA_Res_Plan.pdf*
  - **advanced modelling** in various domains: scenario, MHD and control, fast particles, edge and impurities, divertor
  - feasibility and conception studies of **diagnostics** (polarimetry, EDICAM, FILD, BES, PCI) and other **sub-systems** in connection with the priorities of the scientific programme (ECRH antenna, pellet injection, MGI, divertor pumping, transition to W PFC)
  - development and validation of **operation tools**: data and analysis system, remote participation, magnetic simulation and control, breakdown, EC wall conditioning



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- *C. Day* *P4-42*
- *D. Douai* *P8-31*
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