

JOFFRIN Emmanuel

PROFILE: Physicist & Tokamak operation expert

Presentation

- 30 years of experience in Fusion Research
- 20 years of experience in project management
- 4 years as a section manager

Detailed education

- Phd Thesis - 1990
- Degree in Plasma Physics (1986), University Paris XI
- Language: French, English, German

Professional background

- Since 2020:** Task Force Leader EUROfusion for Tokamak Exploitation (TE): ASDEX Upgrade, TCV, MAST-U, WEST and JET
- Since 2019:** JT-60SA coordinator for the on-site participation of EUROfusion to the integrated commissioning and Task Force leader for Tokamak Exploitation in EUROfusion
- 2014-2019:** JET Task Force Leader for the Physics and Technology for ITER: detailed preparation of the JET work programme JET up to 2020, DT phase and disruption mitigation and avoidance Programme. Revision of JT-60SA research Plan 4.0.
- 2012-2014:** Scientific assistant of the heating and confinement department at CEA. Programme area leader for the CEA participation to European devices.
- 2010-2012:** Deputy Task Force leader for JET Programme with the ITER-like wall. JT-60SA research programme revision 3.0 and co-chair of EU-Japan working group.
- 2008-2010:** JET Close Support Unit (CSU) Operation group leader.
- 2007-2009:** JET Task Force leader for 7 JET campaigns on “advanced tokamak” scenarios.
- 2006-2007:** EFDA-seconded at CSU Culham: Plasma control Coordinator.
In charge for 10 years of the French student master internships at JET financed by the French Embassy in London.
- 2005-2006:** Task Force leader at CEA for the Tore Supra scientific Programme.
- 2003-2004:** Deputy task force leader at CEA for the Tore Supra scientific Programme
Deputy group leader of the operation group at CEA.
- 2000-2003:** On EFDA-secondment at JET in the operation group of the Experimental division
- Appointed expert session leader for JET in 2004
 - Project leader of the real time and measurement project (RTMC)

Technical skills

Plasma scenario operation: JET, JT-60SA
Real time control in tokamaks: JET, Tore Supra
Experimental physics: scenario development, confinement, control, diagnostics.

Management skills

Team leadership: Task Force Leader, operation group Leader and Project manager
Project Management: Real time control in JET, commissioning of JT-60SA and its simulator.

IT & Tools, other

- **Project control**
- **Programming language:** Matlab, Python, Fortran
- **Relational database:** Access