

Publications associated to the thesis

The work presented in this thesis has produced the following publications in reviews, communications in conferences, and reports:

Articles and conferences

Improved Calculation of Synchrotron Radiation Losses in Realistic Tokamak Plasmas

Albajar, F., Johner, J., Granata, G.
Nuclear Fusion **41** (2001) 665.

Effect of Toroidicity and Temperature Profiles on Synchrotron Losses in a Tokamak Plasma

Albajar, F., Johner, J., Granata, G., Villar-Colomé, J., and Dies, J.
Presented at the 27th European Physical Society (EPS) Conference on Controlled Fusion and Plasma Physics, Budapest 2000.

Design of Next Step Tokamak: Consistent Analysis of Plasma Flux Consumption and Poloidal Field System

Ané, J.M., Grandgirard, V., Albajar, F., Johner, J.
Presented at the 18th International Atomic Energy Agency (IAEA) Fusion Energy Conference, Sorrento 2000.

Optimisation of the Magnet System of a 200 MW Steady State Tokamak

Duchateau, J.L., Albajar, F., Ané, J.M., Bottereau, J.M., Bottiglioni, F., Hertout, P., Johner, J., Magaud, P., Turck, B., and Zabiego, M.
Presented at the 16th Conference on Magnet Technology, Ponte Vedra Beach (Florida) 1999.

Performances de divers projets de tokamaks pour la prochaine etape

Albajar, F., Johner, J., and Dies, J.

Presented at the VI Congrès Plasmas de la Société Française de Physique, Orléans 1999.

Influencia de una descripción precisa de las pérdidas sincrotrón sobre el diseño de reactores de fusión

Albajar, F., Johner, J., and Dies, J.

26 Reunión Anual de la Sociedad Nuclear Española, León 2000.

Reports

Design Basis Elements for a Tokamak at $Q = 5$

Albajar, F., Ané, J.M., Bottereau, J.M., Bottiglioni, F., Duchateau, J.L., Hertout, P., Johner, J., Magaud, P., Turck, B., and Zabiego, M.

Report DRFC-EPDIM-99-015 and Report DRFC-EPDIM-99-016 (Etudes Prospectives DSM-CEA), 1999.

A Sensitivity Analysis for FIRE and ITER-FEAT

Johner, J. and Albajar, F.

Report EUR-CEA-FC-1698 (Association EURATOM-CEA), 2000.

Synchrotron Radiation Losses Modelling in Realistic Tokamak Plasmas

Albajar, F., Johner, J., Granata, G.

Report EUR-CEA-FC-1702 (Association EURATOM-CEA), 2000.

Preliminary Assessment of Toschi's Reactor

Albajar, F. and Johner, J.

Note Physique PHY/NTT-2001.002 (CEA/DRFC), 2001.