

2005 Task Summaries and Investigators

Subtask 1: RWM control

PT Subtask Officer: G. Navratil

Task Elements:

Benchmarking of codes used for simulation of RWM feedback control on ITER Scenario 4 plasmas.

Study of ITER RWM control with alternative coils specified by the International Team.

Specification on the noise (all signals except for RWM) in sensor used for RWM control in ITER

G. Navratil (Col.)

J. Bailek (Col.)

Subtask 2: VDE, disruptions and their mitigation in ITER

PT Subtask Officer: Dennis Whyte

Task Elements:

Model development of halo current width during VDEs based on experiments

Simulations of VDEs in ITER with 3D MHD code

Disruption mitigation by noble gas injection

D. Humphreys (GA)

D. Whyte (UW)

H. Strauss (NYU)

S. Jardin (PPPL)

R. Granetz (MIT)

Subtask 3: Fast particle confinement

PT Subtask Officer: N. Gorelenkov

Task Elements:

Evaluation of the effect of fishbone oscillations, TAE modes and toroidal ripple on the fast particle loss.

N. Gorelenkov (PPPL)

R. White (PPPL)

H, Berk (U. Texas)
B. Breizman (U. Texas)

Subtask 4: Effects of radiation transfer on divertor plasma

PT Subtask Officer: Bruce Lipschultz

Task Elements:

Assess the physics in current codes to predict the effects of opacity and radiation transfer on the ITER divertor plasma.

B. Lipshultz (MIT)
S. Ligo (U. Toronto)

Subtask 5: ICRF heating and current drive

PT Subtask Officer: E.F. Jaeger

Task Elements:

Benchmarking of ICRF codes on ITER plasma and antenna.

E.F. Jaeger (ORNL)
P. Bonoli (MIT)
T.K. Mau (UCSD)