Hands-on projects: 2 x 1 week project during gathering at CEA Cadarache in February / March

Schedule

· **Monday**
Morning: Iter construction site visit and seminar by David Campbell (ITER Organization): Physics
issues for ITER (in English).
Afternoon:
- Welcome word by Alain Bécoulet, head of IRFM,
- Security rules in the IRFM labs, Ivan Crest, security responsible officer
- Presentation of the hands-on subjects, Nicolas Fedorczak, hands-on coordinator
- Diagnostics for tokamaks, Annie-Laure Pecquet, physicist.

· **Tuesday – Thursday**
Hands-on project nb. 1

· **Friday**
Preparation of written report on hands-on nb. 1

· **Monday - Wednesday**
Hands-on project nb. 2

· **Thursday**
Preparation of oral talk on hands-on nb. 2

· **Friday**
Presentation of all oral talks.

Organisation.

You will work in pairs. The provisional list of hands-on subjects is given in the table below. Each
subject can accomodate 2 to 10 students. The number of students is indicated in the same table.
Each student will work on two different subjects, one on the first week, the other on the second week.

Important:
1) The list of subjects is provisional: most of the subjects are parts of our current activities. Last minute
changes may thus occur depending on the equipment's and supervisors' availability.
2) We take great care in the distribution of the subjects among you, which is why we ask you to send
us your preferences (see below). We will take into account your wishes as much as possible.

List of subjects

This list shows also the number of students each subject can accomodate on the first and on the
second weeks. These numbers may be slightly revised. The initials in the second column are used in
the table you are requested to fill in.

Subject	Designation	Project nb. 1 Number of students	Project nb. 2 Number of students
Lower hybrid frequency	LH	4	0
Plasma facing	PFC	4	0
Glow discharges	GD	6	0
Experiments on	COM	0	8
Experiments on GOLEM	GOL	8	0
Tore Supra experiment	TS	6	8
Numerical models	NM	10	10
Integrated plasma	IM	0	10
Superconductivity	SC	0	2

Evaluation

Language: French or english. The language must not be an additional difficulty. All the evaluation committee members speak both languages fluently.

Evaluation of project nb.1 :
Each pair of students must write a single report and the same mark will be attributed to both students.

Evaluation of project nb. 2:
Each pair of students will have 30 mn, of which each student will take 10 mn and the last 10 mn will be
dedicated to questions by the committee.
All presentations are open to all students and you are encouraged to attend them. We will be joined by
the M1 students of the Fusion EP (Erasmus Mundus) programme.

Guidelines for the written report and the oral presentation
Both documents must present:
- the subject, its interest for fusion
- a description of the method used and of the results obtained