

Master National Sciences de la Fusion

Erasmus Mundus European Master in Nuclear Fusion & Engineering Physics

Programme of Cadarache event – Winter 2015

Dates

Master Sciences de la Fusion : 9 February – 4 March 2015 22 students (17 FCM + 5PTF)
Erasmus Mundus Fusion-EP: 9-20 February 2015 16 students

Venue

Institut de Recherches sur la Fusion par Confinement Magnétique (IRFM), Centre d'Etudes de Cadarache, 13108 Saint Paul-lez-Durance.

Rooms

9 February IRFM/amphi René Gravier, Bat 506

10-13 February + 16-19 February

Tore Supra Control Room
Salle des Maquettes
Several labs at IRFM

20 February

Amphi René Gravier
Salle des Maquettes

23 February- 4 March INSTN

FCM salle H1
PTF salle H2

Hands On work, 10-19 February: organization.

The students are grouped by 2 (list of students below). The provisional list of subjects is given below, together with the number of students that each topic is planned for. It has to be noted that for most topics, the Hands-On Work proposed to the students is part of the on-going research work. Therefore, the list below is only provisional, and last minute small changes may occur, depending on the actual availability of the equipment. Two Hands-On subjects are attributed to each student. The attribution of the subjects is something we pay particular attention to. The objective is that everybody gets the subject he/she is the most interested in, and we want to take into account the student's choice in the attribution of the subjects. However, fulfilling everybody's wishes may turn out to be something tricky. The following method will be used, with the deadlines given below.

mid 12/2014 the list of available subjects, together with a short description of the scientific content of each subject and the number of students it can take is sent to the students.

- 23/01/2015 each student sends back to us the list of subjects with a ranking, corresponding to the priority they give to each subject (n°1=the top ic they prefer). The ranking has to be done for the full list of subjects, not only indicate top 2 or 3 subjects (we might have to go down a lot in the list because most subjects can only accommodate 2 students).
- 30/01/2015 between 23/01 and 30/01, we prepare the distribution of subjects among the students. We will pay a particular attention to take into account the student's wishes, but again, we don't guaranty everybody will be given his top 1 or 2 subjects. The groups of 2 students will be formed here, based on the subject priority list of each student. On 30/01, we release the table of attribution of subjects. This table will also indicate the grouping of students (by 2). Swapping may then be requested. We will consider them as much as we can.
- 3/02/2015 requests for swapping will not be accepted after 3/02 midnight.
- 6/02/2015 the updated table indicating the attribution of subjects and the groups of 2 students is released. No further change is accepted after that date.

Programme

- **Monday 9 February 2015 (IRFM/Salle René Gravier)**

9:00	Welcome
9:30	Safety rules (I. Crest)
10:00	Coffee
10:30	Talk (Pr. F Wagner)
12:30	Lunch
2:30pm	Introduction to Hands-On experiments/ Visit of IRFM laboratories where the Hands-On are organized.
4:30pm	End

 - All other days 8:30am-4:30pm, IRFM
- 10, 11, 12 February** Hands-On n°1
- 13 February** prepare report / afternoon, visit of ITER construction site.
- 16, 17, 18 February** Hands-On n°2
- 19 February** prepare report
- 20 February** exam : oral presentations

Evaluation

Language: English is preferred for a small number of subjects (indicated in the list of subjects below). However, we don't want the language (English/ French) to be an additional difficulty. Therefore, agreements will be found for the students who prefer to use French (this will be discussed and agreed in advance when raised by the students).

Work done in the 1st week: written document handled on Monday morning 16 February 2015. One document/ group of 2 students.

Work done in the 2nd week: oral presentation, on Friday 20 February 2015. (IRFM, salle des Maquettes/ amphi René Gravier, 2 committees). 30mn are given to each group, divided in 20mn talk (10mn/student) + 10mn questions. The presentations are prepared on Thursday 19 February 2015.

Guidelines for document/talk preparation

The document for the 1st week work, and the talks, for the 2nd week are expected to present:

- the subject of the work, its scientific relevance for fusion
- the description of the method that has been used to study this subject, results
- what would you propose to go further into the subject (follow-up?)

The written document should not exceed 4 pages, including figures. The talks should not exceed ~10 slides, ~5 slides/student.

The final mark is the mean value of the marks obtained for the written document, and the oral report. Each student obtains an individual mark.

List of students

Nom	Prenom	mail	établissement
Artola Such	Javier	jarsuch@alumni.uv.es	AMU/FCM
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