

HERCULES

European School



Daily Information for Your Stay in Grenoble & Your Practicals / Tutorials Session B

17th March > 19th April, 2019

*This information booklet is subject to change!
An updated version will be posted every day on HERCULES display board
located in Maison des Magistères entrance Hall.*

IN CASE OF EMERGENCY, PHONE NUMBERS

SERVICE	 CONTACT
SAMU (Emergency services)* 	15
Police* 	17
Pompiers (Fire brigade)* 	18
Appel d'urgence européen (European emergency call)* 	112
Centre Anti-Poison (Poisons unit) 	04 76 42 42 42
Chemist: Pharmacie Centrale Address: 47 Rue Pierre Sépard, 38000 Grenoble Opening hours : Monday 08:30–13:30, 14:30–19:00 Tuesday 08:30–13:30, 14:30–19:00 Wednesday 08:30–13:30, 14:30–19:00 Thursday 08:30–13:30, 14:30–19:00 Friday 08:30–13:30, 14:30–19:00 Saturday 08:30–12:30 Sunday closed 	04 76 44 14 66 
 Doctors (near the hotel)	
Roux Jean-François 3 rue Arago	04 76 46 89 33 06 89 94 42 12
Vivodtzev Jacques 26 rue Félix Esclangon	04 76 21 36 71

* Free phone number

SERVICES PROVIDED AT*Apparthotel***Marie Curie, Grenoble.**

- ◆ Rooms booked from Sunday 17th March until Friday 19th April in the morning until 10:00 AM.
- ◆ Continental **breakfast** from 7:00 am in the ground floor room.
- ◆ The rooms will be cleaned once a week. This includes change of towels and sheets.
- ◆ During the trip to Barcelona-Paris or Trieste-Hamburg or Villigen-Karlsruhe, you will be able to leave some of your luggage in a room especially booked for that purpose in the hotel.
- ◆ If you wish to stay in the hotel longer or invite a friend during HERCULES, you have to see directly with the hotel. They normally accept; however, as we have special reduced rates for the group during the course, they will ask you to pay an extra amount.
- ◆ Wireless connection is free, phones and bar expenses are at your charge.

MAPS & INFORMATION to go to the Maison des Magistères from the hotel.

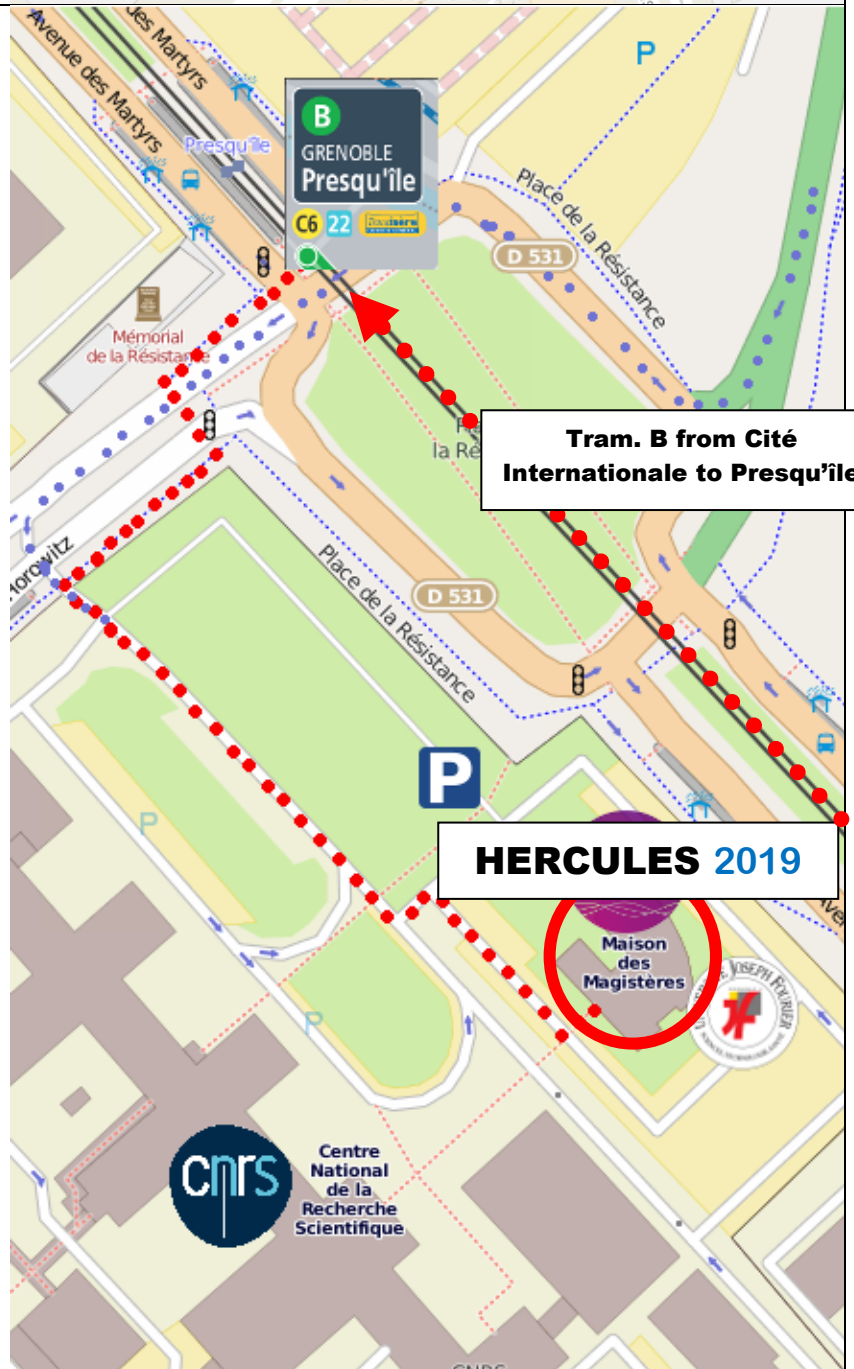
From Séjours et Affaires Marie Curie Apparthotel to tramway B stop “Cité Internationale” (take Presqu’île direction).



From tramway B stop “Cité Internationale” to Maison des Magistères.

- Take the B line, “Grenoble Presqu’île” direction.
- Get off at the “Presqu’île” stop, terminus.
- Turn right while going towards the back of the tram, walk along "Jules Horowitz" street, then enter the CNRS site (green gate) on your left.
- The Maison des Magistères is the building located on the left when entering the site.



! YOU MUST HAVE YOUR HERCULES BADGE, YOUR CLEARANCE AND PROOF OF IDENTITY TO ENTER THE CNRS SITE! DON'T FORGET IT!



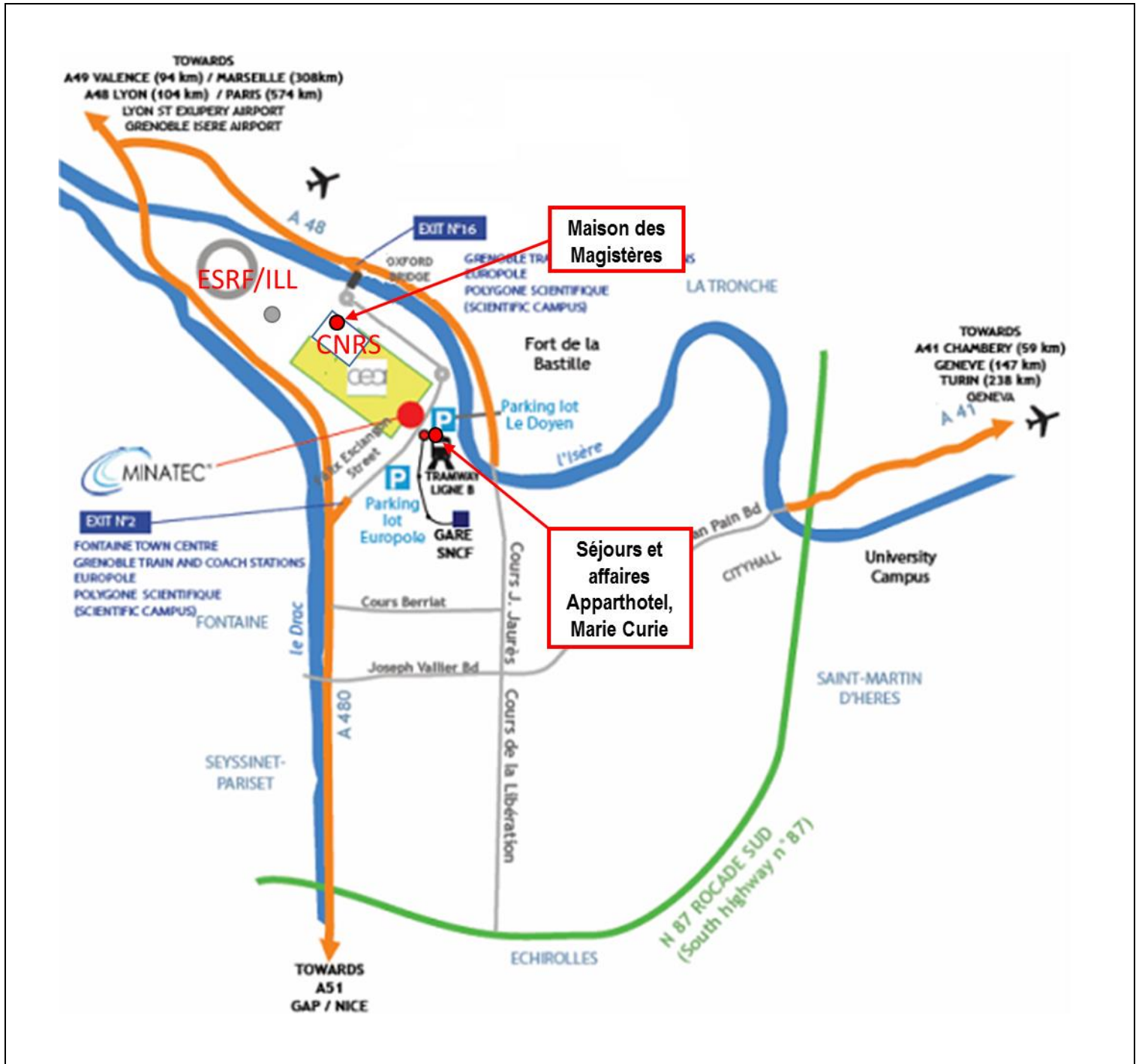
Tram. B from Cité Internationale to Presqu’île

HERCULES 2019

All the lectures during your stay in Grenoble
will take place at
Maison des Magistères on the CNRS site

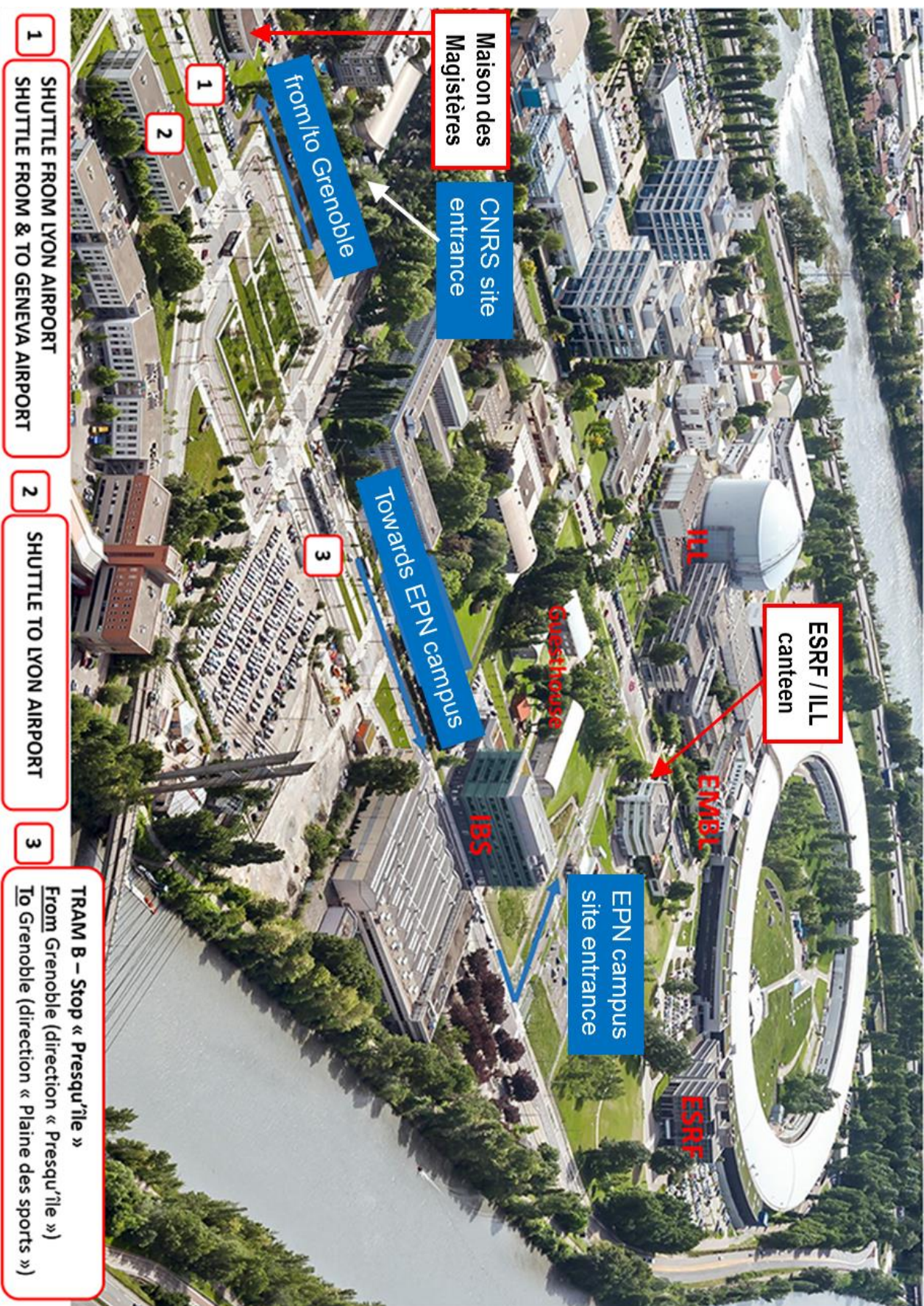
Monday 18 th March		Location
8:30 8:45	WELCOME	Conference room Maison des Magistères
8:45-9:30 10' break 9:40-10:25	Diffraction, Refraction and Absorption of X-Rays and Neutrons (1/2) Werner F. Kuhs	Conference room Maison des Magistères
10:25 10:45	Coffee break	Cafeteria at Maison des Magistères
10:45-11:30 10' break 11:40-12:25	ESRF / ILL Badge Distribution	Meeting point: Maison des Magistères entrance hall
12:25 14:00	Lunch	ILL / ESRF staff restaurant
14:00-14:45 10' break 14:55-15:40	ESRF / ILL Visits	Meeting point: Hall of ESRF central building or ILL4 main building
15:40 16:00	Break	/
16:00-17:45	16:00 – 17:30 ESRF/ILL Presentations Francesco Sette / Mark Johnson	Auditorium, ESRF central building
	17:30 – 17:45 UGA Presentation	
NOTES	17:45 Welcome Cocktail 	@ESRF
NOTES	 <p style="color: orange; font-weight: bold;">Have a look on the <i>HERCULES</i> display board. Information is updated every day!</p>	

GRENOBLE SCIENTIFIC POLYGON MAP




CNRS SITE, EPN CAMPUS (ILL / ESRF / IBS), and TRAM B STOP


EPN SCIENCE CAMPUS – 71 AVENUE DES MARTYRS – 38000 GRENOBLE - FRANCE



Tuesday 19th March		Location
8:45-9:30 10' break 9:40-10:25	Diffraction, Refraction and Absorption of X-Rays and Neutrons (2/2) Werner F. Kuhs	Conference room Maison des Magistères
10:25 10:45	Coffee break	Cafeteria at Maison des Magistères
10:45-11:30 10' break 11:40-12:25	Introduction to Synchrotron Radiation David Attwood	Conference room Maison des Magistères
12:25 14:00	Lunch	ILL / ESRF staff restaurant
14:00-14:45 10' break 14:55-15:40	Crystallography (1/2) Béatrice Grenier	Conference room Maison des Magistères
15:40 16:00	Break	/
16:00-16:45 10' break 16:55-17:40	ESRF / ILL Visits	Meeting point: Hall of ESRF central building or ILL4 main building
NOTES		

Wednesday 20th March		Location
8:45-9:30 10' break 9:40-10:25	Soft X-Rays and VUV: Specific Optics and Applications David Attwood	Conference room Maison des Magistères
10:25 10:45	Coffee break	Cafeteria at Maison des Magistères
10:45-11:30 10' break 11:40-12:25	Neutrons: Scattering and Instrumentation (1/2) Andrew Wildes	Conference room Maison des Magistères
12:25 14:00	Lunch	ILL / ESRF staff restaurant
14:00-14:45 10' break 14:55-15:40	Neutron and X-Ray Diffraction by Crystals: Kinematical Approximation and Experimental Methods Werner F. Kuhs	Conference room Maison des Magistères
15:40 16:00	Break	/
16:00-16:45 10' break 16:55-17:40	Free Electron Lasers and Ultra Fast X-Ray Science Thomas Tschentscher	Conference room Maison des Magistères
NOTES		

Thursday 21st March		Location
8:45-9:30 10' break 9:40-10:25	Fundamentals of X-Ray Absorption Fine Structure (1/2) Sakura Pascarelli	Conference room Maison des Magistères
10:25 10:45	Coffee break	Cafeteria at Maison des Magistères
10:45-11:30 10' break 11:40-12:25	Neutrons: Scattering and Instrumentation (2/2) Andrew Wildes	Conference room Maison des Magistères
12:25 14:00	Lunch	ILL / ESRF staff restaurant
14:00-14:45 10' break 14:55-15:40	Fundamentals of X-Ray Absorption Fine Structure (2/2) Sakura Pascarelli	Conference room Maison des Magistères
15:40 16:00	Break	/
16:00-16:45 10' break 16:55-17:40	Introduction to Imaging Techniques Federica Marone	Conference room Maison des Magistères
17:45-18:00	DECTRIS presentation	Conference room Maison des Magistères
NOTES		Don't forget to bring your poster tomorrow, the session poster will be held in the ESRF mezzanine tomorrow afternoon

Friday 22 nd March		Location
8:45-9:30 10' break 9:40-10:25	X-Ray Detectors Heinz Graafsma	Conference room Maison des Magistères
10:25 10:45	Coffee break	Cafeteria at Maison des Magistères
10:45-11:30 10' break 11:40-12:25	Crystallography (2/2) Béatrice Grenier	Conference room Maison des Magistères
12:25 14:00	Lunch	ILL / ESRF staff restaurant
14:00-14:45 10' break 14:55-15:40	POSTER SESSION with coffee buffet 	ESRF Mezzanine, central building
15:40 16:00	Break	/
16:00-16:45 10' break 16:55-17:40	16:30-16:45 European User Facilities: the CERIC-ERIC and Wayforlight Matthias GIROD 16:45-17:00 NFFA.eu Presentation Ennio CAPRIA 17:00 POSTER AWARDS	ESRF Auditorium, central building
19:30 Gala Dinner & Party - see following page		

19:30 Gala Dinner & Party

Restaurant “Le 5”

5, place Lavalette - 38000 Grenoble

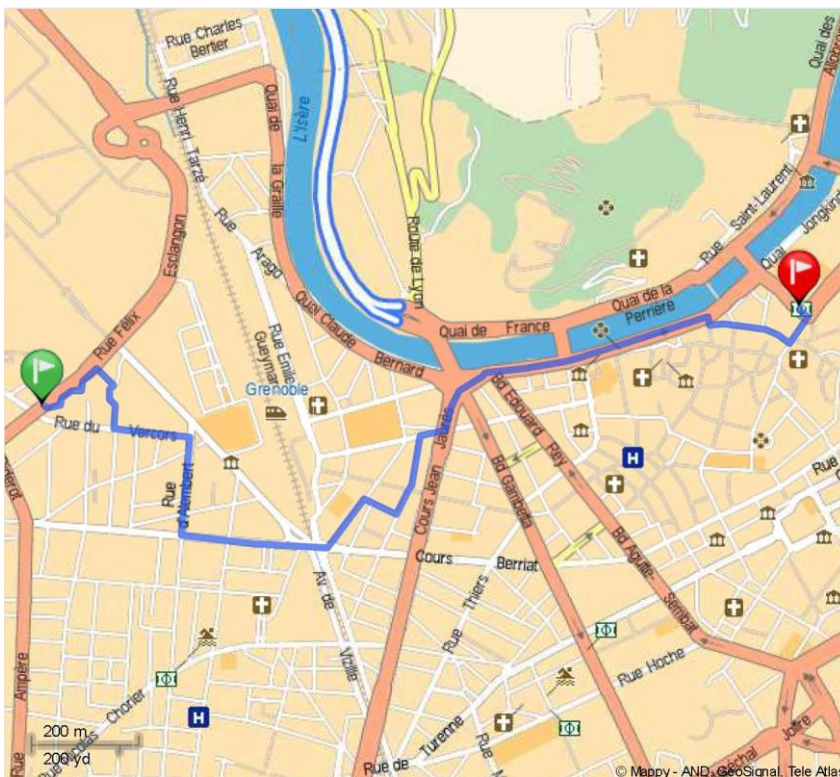
Phone : 04.76.63.22.12

<http://www.le5.fr/>



How to go to the dinner party by tram:

Take the tram line B. Get off at “Notre Dame / Musée”



NOTES

Sunday 24th March**Chamrousse****Snowshoes OUTING** 🧤🧤

Meeting Point from 8:45 a.m. to 9:00 a.m. in front of the Hotel.

Bus Departure: 9:00 SHARP

Don't forget to bring with you:

- Warm clothes (gloves are very important)
- Waterproof shoes/boots
- Sun glasses and cream (if the weather is sunny...)
- Picnic for lunch


You will have professional guides on site.

Monday 25 th March		Location
8:45-9:30 10' break 9:40-10:25	Introduction to Neutron and X-Ray Inelastic Scattering Victor Balédent	Conference room Maison des Magistères
10:25 10:45	Coffee break	Cafeteria at Maison des Magistères
10:45-11:30 10' break 11:40-12:25	Introduction to magnetism Luigi Paolasini	Conference room Maison des Magistères
12:25 14:00	Lunch	ILL / ESRF staff restaurant
14:00-14:45 10' break 14:55-15:40	Full field coherent Imaging Peter Cloetens	Conference room Maison des Magistères
15:40 16:00	Break	/
16:00-16:45 10' break 16:55-17:40	Introduction to small angle scattering Martin Müller	Conference room Maison des Magistères
18:00-19:00	Ancient materials research with synchrotron and neutron techniques Sebastian Schoeder	Conference room Maison des Magistères

Tuesday 26th March		Location
8:45-9:30 10' break 9:40-10:25	Basis of protein crystallography, data collection, data reduction, phasing (1/2) Mark Roe	MAG1 room Maison des Magistères
10:25 10:45	Coffee break	Cafeteria at Maison des Magistères
10:45-11:30 10' break 11:40-12:25	Basis of protein crystallography, data collection, data reduction, phasing (2/2) Mark Roe	MAG1 room Maison des Magistères
12:25 14:00	Lunch	ILL / ESRF staff restaurant
14:00-14:45 10' break 14:55-15:40	Hard X-Ray optics for SR beamlines Ray Barrett	Conference room Maison des Magistères
15:40 16:00	Break	/
16:00-16:45 10' break 16:55-17:40	Science at Neutron Spallation Sources Sean Langridge	Conference room Maison des Magistères
17:45-18:00	Fostering Science Presentation Thibaud David / David Argenti	Conference room Maison des Magistères
NOTES		

Wednesday 27 th March		Location
8:45-9:30 10' break 9:40-10:25	Introduction to Current Trends and Challenges of Molecular and Structural Biology Claude Sauter	MAG1 room Maison des Magistères
10:25 10:45	Coffee break	Cafeteria at Maison des Magistères
10:45-11:30 10' break 11:40-12:25	Neutron Crystallography Matthew Blakeley	MAG1 room Maison des Magistères
12:25 14:00	Lunch	ILL / ESRF staff restaurant
14:00-14:45 10' break 14:55-15:40	Nuclear Magnetic Resonance Martin Blackledge	MAG1 room Maison des Magistères
15:40 16:00	Break	/
16:00-16:45 10' break 16:55-17:40	Native Mass Spectrometry to study Intact Protein Complexes Elisabetta Boeri Erba	MAG1 room Maison des Magistères
NOTES		

Thursday 28th March		Location
8:45-9:30 10' break 9:40-10:25	Non-Crystallographic Ways of Obtaining Structural and Dynamical Information at Different Lengths and Time Scales for Biological Systems Peter Judge	MAG1 room Maison des Magistères
10:25 10:45	Coffee break	Cafeteria at Maison des Magistères
10:45-11:30 10' break 11:40-12:25	Biological Small Angle X-Ray Scattering Javier Perez	MAG1 room Maison des Magistères
12:25 14:00	Lunch	ILL / ESRF staff restaurant
14:00-14:45 10' break 14:55-15:40	Electron Microscopy for Structural Biology Ambroise Desfosses	MAG1 room Maison des Magistères
15:40 16:00	Break	/
16:00-16:45 10' break 16:55-17:40	Small angle neutron scattering Frank Gabel	MAG1 room Maison des Magistères
NOTES		

Friday 29th March		Location
8:45-12:30 and 14:00-17:45	IBS LABS / TUTORIALS See practicals / tutorials schedule and pages about practicals in this booklet (pages 27, 28 & 29)	

31st March

***DEPARTURES to Barcelona, Trieste, Villigen:
To be announced***



MEETING POINT in front of the hotel: to be confirmed

Lectures and practicals program will be given by the local coordinators

*(see pages 27, 28 & 32 – 37 for the list of practicals assigned to each group,
as well as the practicals / tutorials schedule)*


Week 3: 1st – 5th April: Outside Grenoble
Week 4: 8th – 12th April: Outside Grenoble

Monday 15th April		Location
8:45-9:30 10' break 9:40-10:25	Crystal growth and low resolution structures Monika Spano	MAG1 room Maison des Magistères
10:25 10:45	Coffee break	Cafeteria at Maison des Magistères
10:45-11:30 10' break 11:40-12:25	Local Order by X-Ray Absorption Spectroscopy Wolfram Meyer-Klaucke	MAG1 room Maison des Magistères
12:25 14:00	Lunch	ILL / ESRF staff restaurant
14:00-14:45 10' break 14:55-15:40	Crystallography of Viruses and Very Large Macromolecules David Stuart	MAG1 room Maison des Magistères
15:40 16:00	Break	/
16:00-16:45 10' break 16:55-17:40	Fibre Diffraction James Bell	MAG1 room Maison des Magistères
NOTES		

Tuesday 16th April		Location
8:45-12:30 and 14:00-17:45	<p>ILL PRACTICALS (all groups)</p> <p>and ESRF LABS (two groups)</p> <p>See practicals / tutorials schedule and pages about practicals in this booklet (pages 27, 28 & 30)</p>	 <p>NEUTRONS FOR SOCIETY</p>  <p>ESRF The European Synchrotron</p>

Wednesday 17 th April		Location
8:45-9:30 10' break 9:40-10:25	Medical Imaging with Synchrotron Radiation Giuliana Tromba	MAG1 room Maison des Magistères
10:25 10:45	Coffee break	Cafeteria at Maison des Magistères
10:45-11:30 10' break 11:40-12:25	Dynamics of Macromolecules Giuseppe Zaccai	MAG1 room Maison des Magistères
12:25 14:00	Lunch	ILL / ESRF staff restaurant
14:00-14:45 10' break 14:55-15:40	Protein Dynamics by Neutron Scattering Giuseppe Zaccai	MAG1 room Maison des Magistères
15:40 16:00	Break	/
16:00-16:45 10' break 16:55-17:40	Membrane Diffraction Dave Barlow	MAG1 room Maison des Magistères
17h40 18h00	Break with refreshments	Maison des Magistères
18h00-19h00	EVALUATION MEETING	MAG1 room Maison des Magistères
NOTES		

Thursday 18th April		Location
8:45-9:30 10' break 9:40-10:25	Coherent Diffraction Imaging and Ptychography Chris Jacobsen	MAG1 room Maison des Magistères
10:25 10:45	Coffee break	Cafeteria at Maison des Magistères
10:45-11:30 10' break 11:40-12:25	X-Ray and Neutron Reflectivity in Biophysics Yuri Gerelli	MAG1 room Maison des Magistères
12:25 14:00	Lunch	ILL / ESRF staff restaurant
14:00-14:45 10' break 14:55-15:40	Super-Resolution Fluorescence Microscopy Dominique Bourgeois	MAG1 room Maison des Magistères
15:40 16:00	Break	/
16:00-16:45 10' break 16:55-17:40	Time-Resolved Fluorescence and Circular Dichroism Studies with SR David Clarke	MAG1 room Maison des Magistères
NOTES		

Friday 19 th April		Location
8:45-9:30 10' break 9:40-10:25	Analysis and Visualization of 3D X-Ray Data Chris Buckley	MAG1 room Maison des Magistères
10:25 10:45	Coffee break	Cafeteria at Maison des Magistères
10:45-12:00	Hercules Mythology Chris Buckley	Conference room Maison des Magistères
12:00 14:00	Farewell Wine and Cheese 	Cafeteria at Maison des Magistères
	<p><i>For your information, the Séjours et Affaires Apparthotel Marie Curie is booked until Friday 19th March until 10:00 AM in the morning. Please, inform the hotel if you leave at a different date.</i></p> <p>All the HERCULES team wishes you a safe trip back home and good luck for your future research!</p>	
NOTES	Please leave your canteen card today after lunch at the canteen desk or give it back to Isabelle, Clotilde or Youlia before leaving Grenoble	

HERCULES 2019

Information for the Practicals and Tutorials

During your weeks in **Grenoble**, in case of problem during the practical works time:

CONTACTS: European Schools Office ☎ 04 76 88 79 86 or 07 87 82 08 42 ✉ hercules@hercules-school.eu

Coordinators: B. DEME, B. GRENIER, P. PERNOT, G. SCHIRO (Grenoble)
 B. CALISTO, D. PIERUCCI, M. J. SIMANCAS (Barcelona)
 A. COATI, F. DAMAY, L. NATAF (Paris-Saclay)
 F. BENCIVENGA, A. LOCATELLI, E. PEDERSOLI, B. ROSSI (Trieste)
 R. GEHRKE, O. SEECK, T. TSCHENTSCHER (Hamburg)
 J. DREISER (Villigen)
 T. BAUMBACH, M. HAGELSTEIN, L. JOCHIM (Karlsruhe)

All participants will carry out one or two hands-on simulated neutron practical(s) at Institut Laue-Langevin (ILL), and, in the first case, a lab on cryoEM at European Synchrotron Radiation Facility (ESRF) in Grenoble. Everyone will also carry out hands-on experiments / data treatment at Institut de Biologie Structurale (IBS) in Grenoble.

In addition, practicals will be organized for the full-time participants on two different sites among our six partner facilities, with three groups:

- the Spanish synchrotron source **ALBA** near Barcelona, then the French synchrotron radiation facility **SOLEIL** and the French neutron reactor Orphée – **LLB** near Paris (**Barcelona-Paris group**)
- the Italian synchrotron light source **Elettra** and Free Electron Laser Radiation for Multidisciplinary Investigations (**FERMI**) in Trieste, then the German synchrotron radiation facility Deutsches Elektronen-Synchrotron (**DESY**) and the **European XFEL** in Hamburg (**Trieste-Hamburg group**)
- the Swiss synchrotron radiation facility Swiss Light Source (SLS) at the Paul Scherrer Institute (PSI) in Villigen, then the **KIT Light Source** in Karlsruhe (**Villigen-Karlsruhe group**)

The full time participants have been distributed in 5 groups of four people (1B, 2B, ..., 5B) between these three travel groups (1 or 2 group(s) per travel group), in the best possible way (regarding the many constraints) with respect to their main research interests and wishes expressed. Each group will perform selected practicals and tutorials (about 16 half-days during the whole school).

In the next page, you will find the nominative list of groups with the information on what sites each group will go (Barcelona / Paris-Saclay, Trieste / Hamburg, or Villigen / Karlsruhe) and on which practicals and tutorials they will follow in the chronological order (first line: labs / tutorials in Grenoble, second line: practicals in Barcelona, Trieste, or Villigen, third line: practicals in Paris-Saclay, Hamburg, or Karlsruhe, fourth line: practicals / labs in Grenoble). The details on each practical / tutorial is then given again in the following tables, recalling the groups assignment for each of them. Concerning those taking place in Grenoble, some practical information is also given (meeting point, map, ...)

Occasional swaps between participants of different groups have been done, hence the 'or' for some of the tutorials / labs / practicals taking place in Grenoble on page 28. These swaps are reported explicitly in the next pages and in the "practicals / tutorials schedule" distributed on a separate sheet of paper.

All participants are required to attend the entire practical and tutorial program assigned to them.

FULL-TIME PARTICIPANTS: GROUPS FOR PRACTICALS AND TUTORIALS

Group	SURNAME	Given Name	Practicals and Tutorials
1B	OROZCO RODRIGUEZ	Juan Manuel	Cryst or NMR, Mass spec or COOT MIRAS, MISTRAL, XALOC SWING / PROXIMA2, PACE IN13 or FIGARO, FIGARO or IN13
	RASMUSSEN	Helena Østergaard	
2B	SOCHOR	Benedikt	NMR or COOT, COOT or EM XALOC, MIRAS, MISTRAL SWING / PROXIMA2, Muses LADI-III or FIGARO, cryoEM
	WATTS	Samuel Peter	
3B	ADÁMKOVÁ	Kristýna	Mass spec or COOT, Anom or EM SISSI, TwinMic, EIS P12, P13, Bio-labs, SPB/SFX IN15 or LADI-III, D22 or IN13
	BHARTIYA	Archana	
4B	GAJDOS	Lukas	EM, Cryst SAXS, TeraFERMI, DXRL P13, P12, SPB/SFX, Bio-labs cryoEM, IN15
	GUSACH	Anastasiia	
5B	CISSÉ	Aline	Anom, NMR PX III, Mat Science, TOMCAT, Pollux KNMF, IR2, NANO, INE, TOPOTOMO D22, LADI-III or IN13
	MALÝ	Martin	
3B	MARCHENKOVA	Margarita	EM, Cryst SAXS, TeraFERMI, DXRL P13, P12, SPB/SFX, Bio-labs cryoEM, IN15
	RASKAR	Tushar Bhim	
4B	SACHDEVA	Ekta	EM, Cryst SAXS, TeraFERMI, DXRL P13, P12, SPB/SFX, Bio-labs cryoEM, IN15
	SIKANDAR	Asfandyar	
5B	ZABELSKII	Dmitrii	Anom, NMR PX III, Mat Science, TOMCAT, Pollux KNMF, IR2, NANO, INE, TOPOTOMO D22, LADI-III or IN13
	BOLIK	Stéphanie	
5B	HOTTON	Claire	Anom, NMR PX III, Mat Science, TOMCAT, Pollux KNMF, IR2, NANO, INE, TOPOTOMO D22, LADI-III or IN13
	KALIADZENKA	Ilya	
5B	KULA	Monika Anna	Anom, NMR PX III, Mat Science, TOMCAT, Pollux KNMF, IR2, NANO, INE, TOPOTOMO D22, LADI-III or IN13



**TUTORIALS AND PRACTICALS IN LABORATORIES AT IBS,
GRENOBLE (29TH MARCH)**

ALL GROUPS

CONTACT: Giorgio SCHIRO ☎ 04 57 42 86 94 ✉ giorgio.schiro@ibs.fr

MEETING POINT IN THE ENTRANCE HALL OF THE IBS BUILDING

(see IBS on map page 31)

TUTORIAL / PRACTICAL	INSTRUCTOR(S)	TITLE	GROUP(S)	
NMR	Adrien FAVIER	Folding characterization, structure and dynamics of proteins by NMR	1B: Watts 2B: Bhartiya, Adámková	5B
COOT	David COBESSI	Macromolecular model building and analysis in electron density maps using COOT	2B: Gajdos, Gusach 3B: Cissé	1B: Watts 2B: Bhartiya, Adámková
Cryst	Monika BUDAYOVA-SPANO	Crystallization of biological macromolecules	1B: all except Watts	4B
Anom	Eric GIRARD	Solving protein structures by crystallography with anomalous-based methods	5B	3B: all except Cissé
Mass spec	Elisabetta BOERI-ERBA	Native mass spectrometry to study intact protein complexes	3B: all except Cissé	1B: all except Watts
EM	Daphna FENEL, Leandro ESTROZI	Electron microscopy using negative staining	4B	2B: Gajdos, Gusach 3B: Cissé
		Date:	29/03	29/03
		Time:	08:45	14:00

SYNCHROTRON RADIATION LAB AT ESRF, GRENOBLE (16TH APRIL)

GROUPS 2B and 4B

CONTACT: Petra PERNOT ☎ 04 76 88 28 42 ✉ rejma@esrf.fr

MEETING POINT IN THE HALL OF THE ESRF CENTRAL BUILDING

(see ESRF central building on map page 31)

LAB	"BEAMLINE"	INSTRUCTOR(S)	TITLE	GROUP(S)	
cryoEM	CM01	David FERNANDEZ MARTINEZ, Michael HONS	Cryo-EM: vitrification and data collection pipeline	4B	2B
				Date:	16/04
				Time:	8:45
					16/04
					14:00

NEUTRON PRACTICALS AT ILL, GRENOBLE (16TH APRIL)

ALL GROUPS

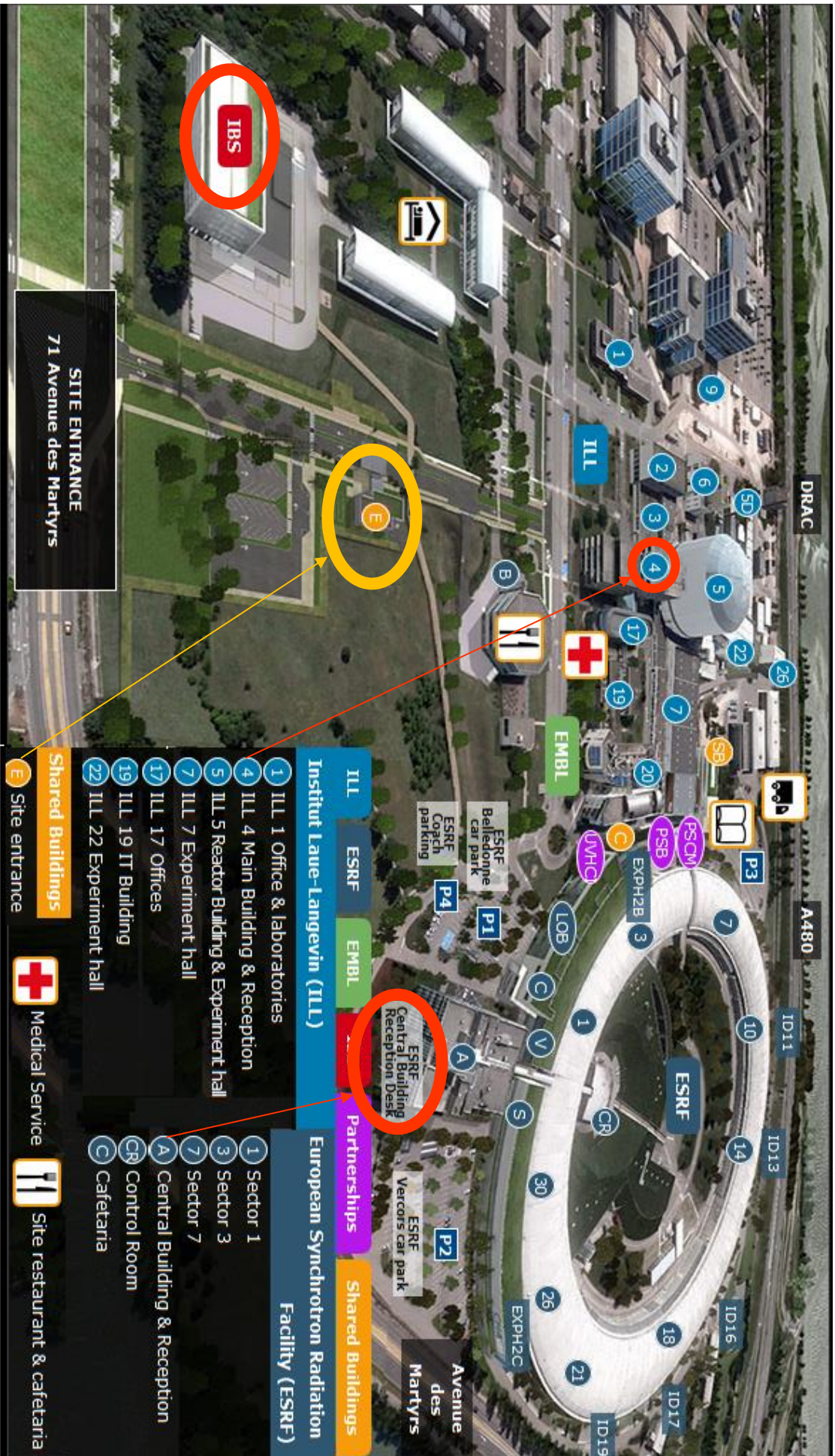
CONTACTS: Bruno DEME ☎ 04 76 20 73 11 ✉ deme@ill.fr
Béatrice GRENIER ☎ 04 76 20 74 23 ✉ grenier@ill.fr

MEETING POINT IN THE HALL OF THE ILL4 MAIN BUILDING

(see ILL4 on map page 31)

PRACTICAL	INSTRUCTOR(S)	TITLE	GROUPS	
FIGARO	Armando MAESTRO	Life in two dimensions: From soft to biological matter elucidated by neutron reflectometry	1B: Watts 2B: Bhartiya, Gajdos	1B: all except Watts
D22	Anne MARTEL	Small-Angle Neutron Scattering for low resolution structure of biological complexes in solution	5B	3B: all except Malý
LADI-III	Nicolas COQUELLE	Neutron macromolecular crystallography using the quasi-Laue diffractometer	2B: Adámková, Gusach 3B: Malý	5B: all except Hotton
IN13	Judith PETERS	Molecular dynamics of biological samples probed by incoherent neutron scattering	1B: all except Watts	1B: Watts 3B: Malý 5B: Hotton
IN15	Ingo HOFFMANN	Neutron Spin-Echo for diffusion in colloidal systems	3B: all except Malý	4B
			Date:	16/04
			Time:	8:45
				16/04
				14:00

Map: EPN campus comprising EMBL, ESRF, IBS, and ILL, together with the canteen where week-day lunches will be taken



BARCELONA-PARIS group: BARCELONA, Spain



SYNCHROTRON RADIATION PRACTICALS & TUTORIALS AT ALBA (2ND – 4TH APRIL)

GROUPS 1B AND 2B

CONTACTS: Bárbara CALISTO ☎ (+34) 93 592 4055 ✉ bcalisto@cells.es
 Debora PIERUCCI ☎ (+34) 93 592 4538 ✉ dpierucci@cells.es
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INFORMATION ABOUT THE MEETING POINT GIVEN ON SITE

PRACTICALS ON 2ND AND 3RD APRIL

BEAMLINE	INSTRUCTOR(S)	TITLE	GROUPS
BL01 - MIRAS	Immaculada MARTINEZ-ROVIRA, Ibraheem YOUSEF	Using the FTIR microscope and various experimental setups at MIRAS BL	1B, 2B
BL09 - MISTRAL	Ana PÉREZ-BERNÁ	Biomedical Applications at the soft X-ray microscope MISTRAL	1B, 2B
BL13 - XALOC	Bárbara CALISTO, Damià GARRIGA	Protein crystallisation and data collection at XALOC	2B, 1B
BL13 - XALOC	Fernando GIL, Roeland BOER	In-situ diffraction and data treatment at XALOC	2B, 1B

TUTORIALS ON 4TH APRIL

INSTRUCTOR(S)	TITLE	GROUPS
Xavier CARPENA, Bárbara CALISTO	Macromolecular model building and analysis of electron density maps	1B + 2B
Ibraheem YOUSEF	Infrared data handling (chemical imaging and individual spectra) using OPUS and Unscrambler software	1B + 2B

BARCELONA-PARIS group: PARIS – SACLAY, France



SYNCHROTRON RADIATION PRACTICALS AT SOLEIL (9TH – 10TH APRIL)

GROUPS 1B AND 2B

CONTACTS: Alessandro COATI ☎ 01 69 35 96 78 ✉ alessandro.coati@synchrotron-soleil.fr
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INFORMATION ABOUT THE MEETING POINT GIVEN ON SITE

PRACTICAL	INSTRUCTORS	TITLE	GROUPS
SWING PROXIMA2	Aurélien THUREAU Martin SAVKO	Structural investigations of Membrane Proteins using SRCD, BioSaxs and X-Ray Crystallography	1B, 2B



NEUTRON PRACTICALS AT LLB CEA (11TH APRIL)

GROUPS 1B AND 2B

CONTACT: Françoise DAMAY ☎ 01 69 08 49 54 ✉ francoise.damay@cea.fr

INFORMATION ABOUT THE MEETING POINT GIVEN ON SITE

PRACTICAL	INSTRUCTOR(S)	TITLE	GROUP
PACE	Sophie COMBET	Small angle neutron scattering on biological samples	1B
Muses	Stéphane LONGEVILLE	Protein diffusion in crowded solutions	2B

TRIESTE-HAMBURG group: TRIESTE, Italy



Elettra Sincrotrone Trieste

SYNCHROTRON RADIATION PRACTICALS AT ELETTRA (2ND – 3RD APRIL)

GROUPS 3B AND 4B

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INFORMATION ABOUT THE MEETING POINT GIVEN ON SITE

PRACTICAL	INSTRUCTOR(S)	TITLE	GROUP
SISSI	Lisa VACCARI, Giovanni BIRARDA	FTIR microscopy and nanoscopy	3B
Twinmic	Alessandra GIANONCELLI	X-ray Microscopy and Low Energy XRF on cells and tissues	
SAXS	Heinz AMENITSCH, Sigrid BERNSTORFF	Self Assembly of mesoporous materials (MCM-41)	4B
DXRL	Benedetta MARMIROLI, Alessio TURCHET	X-ray lithography to obtain microgears, replica of microstructures using a soft material	



Elettra Sincrotrone Trieste

FREE ELECTRON LASER PRACTICALS AT FERMI (2ND – 3RD APRIL)

GROUPS 3B AND 4B

CONTACTS: Filippo BENCIVENGA ☎ (+39) 040-375-8202 ✉ filippo.bencivenga@elettra.eu
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INFORMATION ABOUT THE MEETING POINT GIVEN ON SITE

PRACTICAL	INSTRUCTOR(S)	TITLE	GROUP
EIS	Laura FOGLIA, Riccardo MINCIGRUCCI	Nanoscale thermal transport (no FEL beam - simulated experiment/data analysis)	3B
TeraFERMI	Nidhi ADHLAKHA	THz induced birefringence in z-cut Quartz	4B

TRIESTE-HAMBURG group: HAMBURG, Germany
**SYNCHROTRON RADIATION PRACTICALS
AT DESY (9TH APRIL)**
GROUPS 3B AND 4B

CONTACT: Rainer GEHRKE ☎ (+49) 40-8998-3914 ✉ rainer.gehrke@desy.de
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INFORMATION ABOUT THE MEETING POINT GIVEN ON SITE

PRACTICAL	INSTRUCTOR(S)	TITLE	GROUPS
P12	Melissa Ann GRAEWERT, Cy JEFFRIES	Small angle X-Ray scattering on biological samples in solution	3B, 4B
P13	Guillaume POMPIDOR	Macromolecular crystallography	4B, 3B


**FREE ELECTRON LASER PRACTICALS AND TUTORIALS
AT EUROPEAN XFEL (10TH – 12TH APRIL)**
GROUPS 3B AND 4B

CONTACTS: Thomas TSCHENTSCHER ☎ (+49) 40-8998-3904 ✉ thomas.tschentscher@xfel.eu

INFORMATION ABOUT THE MEETING POINT GIVEN ON SITE
PRACTICALS ON 10TH – 11TH APRIL

PRACTICAL	INSTRUCTORS	TITLE	GROUPS
Bio-labs	Huijong HAN, Robin SCHUBERT	Crystallization and nano-crystal injection	3B, 4B
SPB/SFX	Klaus GIEWEKEMEYER, Henry KIRKWOOD, Ruslan KURTA, Adam ROUND	Small-angle scattering using coherent beams	4B, 3B

TUTORIALS ON 12TH APRIL

INSTRUCTOR	TITLE	GROUPS
Ruslan KURTA	Evaluation of data from European XFEL practicals	3B + 4B

VILLIGEN-KARLSRUHE group: VILLIGEN, Switzerland

PAUL SCHERRER INSTITUT


 SYNCHROTRON RADIATION PRACTICALS
 AT PSI – SLS (1ST – 2ND APRIL)

GROUP 5B

 CONTACT: Jan DREISER ☎ (+41) 56-310-58-95 ✉ jan.dreiser@psi.ch

INFORMATION ABOUT THE MEETING POINT GIVEN ON SITE

PRACTICAL	INSTRUCTORS	TITLE	GROUP
TOMCAT	Federica MARONE	Absorption and phase contrast X-ray tomographic microscopy	5B
PX III	Vincent OLIERIC	Macromolecular crystallography data collection	
Materials science	Nicola CASATI	Quantification of two components powder via Rietveld refinement	
Pollux	Ben WATTS	Composition mapping of a thin-film polymer blend	

VILLIGEN-KARLSRUHE group: KARLSRUHE, Germany


 SYNCHROTRON RADIATION PRACTICALS AND TUTORIALS
 AT KIT Light Source (8TH – 12TH APRIL)

GROUP 5B

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INFORMATION ABOUT THE MEETING POINT GIVEN ON SITE

PRACTICAL	INSTRUCTOR(S)	TITLE	GROUP
KNMF	Thomas SCHALLER	Introduction to the Karlsruhe Nano Micro Facility (tutorial)	5B
IR2	David MOSS, Biliana GASHAROVA, Yves-Laurent MATHIS	Synchrotron Fourier Transform Infra-red spectroscopy	
NANO	Sondes BAUER	X-ray full field microscopy	
INE	Jörg ROTHE	X-ray absorption spectroscopy	
TOPOTOMO	Daniel HÄNSCHKE, Marcus ZUBER, Thomas VAN DE KAMP	Tomography, laminography	

PRACTICALS / TUTORIALS INSTRUCTORS IN GRENOBLE:

SURNAME	Name	Institute	E-mail
BOERI-ERBA	Elisabetta	IBS	
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FAVIER	Adrien	IBS	
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GIL	Fernando	ALBA synchrotron	
MARTINEZ-ROVIRA	Immaculada	ALBA synchrotron	
PÉREZ-BERNÁ	Ana	ALBA synchrotron	
YOUSEF	Ibraheem	ALBA synchrotron	

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PRACTICALS / TUTORIALS INSTRUCTORS IN HAMBURG:

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HAN	Huijong	European XFEL	
GIEWEKEMEYER	Kiaus	European XFEL	
GRAEWERT	Melissa Ann	EMBL Hamburg	
SCHUBERT	Robin	European XFEL	
KURTA	Ruslan	European XFEL	
ROUND	Adam	European XFEL	

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WATTS	Ben	PSI	

PRACTICALS INSTRUCTORS IN KARLSRUHE:

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MOSS	David	KIT Light source	
ROTHE	Jörg	KIT Light source	
RUPRECHT	Robert	KIT Light source	
SCHALLER	Thomas	KIT Light source	
SCHUH	Marcel	KIT Light source	
SMALE	Nigel	KIT Light source	
VAN DE KAMP	Thomas	KIT Light source	
ZUBER	Marcus	KIT Light source	

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