

COST ACTION 15209

European Network on NMR Relaxometry (EURELAX)

Training School: NMR relaxometry for soft matter and living systems

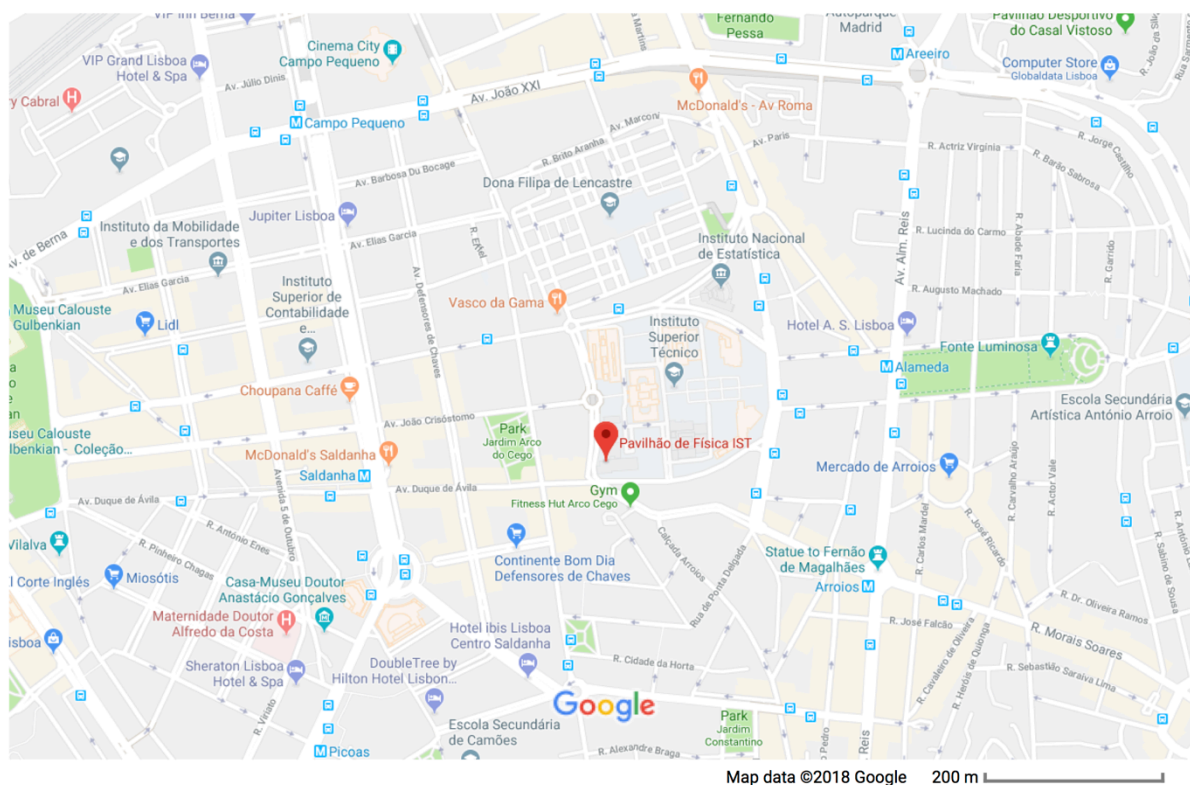
Instituto Superior Técnico, Av. Rovisco Pais 1, 1049-001 Lisboa, Portugal

From: 10.11.2019

To: 13.11.2019

Location: Pavilhão de Física, Instituto Superior Técnico, Av. Rovisco Pais 1, 1049-001 Lisboa, Portugal (38°44'08.0"N 9°08'23.3"W) (38.735550, -9.139800)

<https://goo.gl/maps/cEkNrPSsMpt>



Meeting points and rooms

Registration: lobby of the Pavilhão de Física (Physics and Mathematics Building) on the map

Main workshop room: Pavilhão de Física: P8

NMR Laboratory: Complexo Interdisciplinar floor 0 (-2 from the lobby)

Laptops & wi-fi:

a guest account will be available during the training school. Participants are advised to bring their laptops and/or tablets for an easier access to the documentation and <https://fitteia.org> server for some of the model fitting sessions

Instructions for temporary user or meeting/conference participants:

Login credentials:

Username: COSTCA15209

Password: Cxjc2n

1. Browse available wireless networks and select as SSID 'tecnico-guest';
2. Set IP to automatic (DHCP). This is usually the default setting, so you may probably skip this step;
3. Open your browser and try to access any external website. You will be automatically redirected to the page https://wifi.ist.utl.pt/index_auth.php. Follow the link 'Web based login' at the top of the page concerning short-time, conference and meetings accounts. Enter the above username/password when requested;
4. After step 3 you may freely browse and access the Internet. You may need to repeat the above steps if you close your browser or if the connection times out.

Documents:

Supporting texts, papers, and instructions can be found for download

at <https://cisne.tecnico.ulisboa.pt/owncloud/index.php/s/iBmv0OvSCEGVgJm>

Software:

MATLAB and ORIGIN **will not be** available on site.

fitteia.org will be presented as an alternative to MATLAB or ORIGIN

Tentative Schedule

February	Tuesday 10	Wednesday 11	Thursday 12	Friday 13
08:00	Registration	Mecit Halil Öztop		
09:00	Welcome	Relaxometry in Food systems and Non-Conventional Time Domain NMR Experiments Part II	<i>Mecit Halil Öztop</i> Laboratory Relaxation Spectrum Analysis, Image Analysis by MATLAB	<i>Carlos Geraldes</i> Paramagnetic relaxation and contrast agents Part III
	<i>Bill Price</i>			
10:00	An Introduction to NMR, Diffusion, MRI Part I			
	Coffee Break	Coffee Break	Coffee Break	Coffee Break
11:00	<i>Danuta Kruk</i>	<i>Bill Price</i>	<i>Pedro Sebastião</i>	<i>Mecit Halil Öztop</i>
12:00	Introduction to NMR Relaxometry	An Introduction to NMR, Diffusion, MRI Part II	NMRD in partially ordered systems: liquid crystals, ionic liquids	Laboratory statistical analysis techniques: ANOVA, Discriminate Analysis, Regression
13:00	Lunch	Lunch	Lunch	Lunch
14:00				
15:00	<i>Mecit Halil Öztop</i>	<i>Danuta Kruk</i>	<i>Bill Price</i>	<i>Pedro Sebastião</i>
16:00	Relaxometry in Food systems and Non-Conventional Time Domain NMR Experiments Part I	Relaxation theory for super-paramagnetic systems	An Introduction to NMR, Diffusion, MRI Part III	Laboratory Model fitting: Self-diffusion Rotations Collective motions Paramagnetic
	Coffee Break	Coffee Break	Coffee Break	Coffee Break
17:00	<i>Carlos Geraldes</i>	<i>Mecit Halil Öztop</i>	<i>Carlos Geraldes</i>	<i>Danuta Kruk</i>
18:00	Paramagnetic relaxation and contrast agents Part I	Relaxometry and Imaging in Foods	Paramagnetic relaxation and contrast agents Part II	Challenges of NMR relaxometry
19:00	Discussion	Discussion	Discussion/ NMR Laboratory	Closing

Trainees:

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