

EUPROMETA – 27th Doctoral School on Metamaterials 4-8 May 2015 –
Rome, Italy

Electromagnetic, acoustic, and thermal invisibility School Tentative Program

Program:

4 May – Monday

Hour	Topic	Lecturer
09:30 – 10:00	Participant registration	
10:00 – 10:15	Welcome and open	
10:15 – 11:15	Metamaterial cloaking: theoretical aspects and limitations – Part I	Prof. Andrea Alù
11:15 – 11:45	Break	
11:45 – 12:45	Metamaterials cloaking: theoretical aspects and limitations – Part II	Prof. Andrea Alù
12:45 – 14:30	Lunch	
14:30 – 15:30	Electromagnetic cloaking and invisibility at microwave frequencies – Part I	Prof. S. Tretyakov
15:30-16:00	Break	
16:00-17:00	Electromagnetic cloaking and invisibility at microwave frequencies – Part II	Prof. S. Tretyakov
17:00-19:00	Self-study	

5 May – Tuesday

Hour	Topic	Lecturer
09:30 – 10:30	Mantle cloaking and applications in antennas – Part I	Profs. F. Bilotti and A. Toscano
10:30 – 11:00	Break	
11:00-12:00	Mantle cloaking and applications in antennas – Part II	Profs. F. Bilotti and A. Toscano
12:00-13:00	Assignments	
14:30-15:30	Magnetostatic cloaking – Part I	Prof. Àlvar Sanchez
15:30-16:00	Break	
16:00-17:00	Magnetostatic cloaking – Part II	Prof. Àlvar Sanchez
17:00-18:00	Is actually possible to make the velocity invisible?	Prof. Davide Ramaccia
18:00-19:00	Exercises and self-study	M. Barbuto, P. Gori, C. Guattari, A. Monti, D. Ramaccia

6 May – Wednesday

Hour	Topic	Lecturer
09:30-10:30	Cloaking in optics: scientific background and experiments – Part I	Prof. Martin Wegener
10:30-11:00	Break	
11:00-12:00	Cloaking in optics: scientific background and experiments – Part II	Prof. Martin Wegener
12:00-13:00	Mantle cloaking at optical frequencies	Profs. F. Bilotti, A. Toscano and A. Monti
13:00-14:30	Lunch	
14:30-15:30	Thermodynamic cloaking – Part I	Prof. S. Guenneau
15:30-16:00	Break	
16:00-17:00	Thermodynamic cloaking – Part II	Prof. S. Guenneau
17:00-19:00	Exercises and self-study	M. Barbuto, P. Gori, C. Guattari, A. Monti, D. Ramaccia
20:00-23:00	School Dinner	

7 May – Thursday

Hour	Topic	Lecturer
09:30-10:30	Experiments on cloaking in thermodynamics and mechanics	Prof. Martin Wegener
10:30-11:00	Break	
11:00-13:00	Poster presentation by students	
13:00-14:30	Lunch	
14:30-15:30	Acoustic cloaking – Part I	Prof. Steven Cummer
15:30-16:00	Break	
16:00-17:00	Acoustic cloaking – Part II	Prof. Steven Cummer
17:00-19:00	Self-study	

8 May – Friday

Hour	Topic	Lecturer
09:30-11:00	Exercises and self-study	M. Barbuto, P. Gori, C. Guattari, A. Monti, D. Ramaccia
11:00-11:30	Break	
11:30-13:00	Assignment solution and closing	