



16th European Doctoral School on Metamaterials

Bringing gain to metamaterials

Karlsruhe, Germany, September 17-18, 2010

Program:

Friday 17

Hour	Topic	Lecturer
09:00 - 09:15	Welcome and outline of the school	M. Wegener
09:15 - 10:45	Implications of causality on metamaterial losses	M. Stockman
10:45 - 11:15	Coffee break	
11:15 - 12:45	Causality-based criteria must be used with care	M. McCall
13:00 - 14:30	Lunch	
14:30 - 15:30	Discussion in groups on the question: Can zero loss in negative-index metamaterials be accomplished or not?	
15:30 - 16:00	Prepared statements by students on this question	
16:00 - 16:30	Coffee break	
16:30 - 18:00	The SPASER	M. Stockman
19:00	Dinner	

Saturday 18

Hour	Topic	Lecturer
10:00	Meeting for excursion to Karlsruhe castle	
12:30 - 14:00	Lunch	
14:00 - 15:30	Plasmonic structures with gain	M. Noginov
15:30 - 16:00	Coffee break	
16:00 - 17:30	Self-consistent calculations on metamaterials with gain	C. M. Soukoulis
17:30 - 17:45	Concluding remarks	M. Wegener