Wahlmodul: Measurement & Model (2.7.-27.7.2012)

Week 1:

Time	Mon, 02.07.12	Tue, 03.07.12	Wed, 04.07.12	Thu, 05.07.12	Fri, 06.07.12
9-10					
10-12	Probabilistic models in neuroscience	Discrete random variables	Continuous random variables	Moments and correlation	
12-14	LUNCH				
14-17³⁰	Introduction to Mathematica	Computer-based exercises	Computer-based exercises	Computer-based exercises	

Week 2:

Time	Mon, 09.07.12	Tue, 10.07.12	Wed, 11.07.12	Thu, 12.07.12	Fri, 13.07.12
9-10					
10-12	Principal component analysis	Conditional probability	Signal + noise	Parametric models and regression	
12-14	LUNCH				
14-17³⁰	Computer-based exercises	Computer-based exercises	Computer-based exercises	Computer-based exercises	

Week 3:

Time	Mon, 16.07.12	Tue, 17.07.12	Wed, 18.07.12	Thu, 19.07.12	Fri, 20.07.12
9-10					
10-12	Classification and cluster analysis	Code and information	Stochastic processes in space and time	Markov processes	
12-14	LUNCH				
14-17³⁰	Computer-based exercises	Computer-based exercises	Computer-based exercises	Computer-based exercises	

Week 4:

Time	Mon, 23.07.12	Tue, 24.07.12	Wed, 25.07.12	Thu, 26.07.12	Fri, 27.07.12
9-10					
10-12	Poisson processes	Renewal processes	Neuronal point processes	Networks and neuronal interactions	
12-14	LUNCH				
14-17³⁰	Computer-based exercises	Computer-based exercises	Computer-based exercises	Wrap up	

Exercises	Lecture	Seminar