



# Signal Processing for Medical Applications – Frequency Domain Analyses

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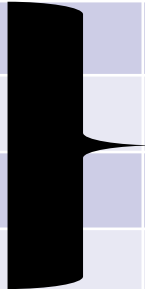
# Lecture 11

## Topics of Presentation

Time Slots	Dates of Presentation
9:15 – 9:30	18-01-2013
9:35 – 9:50	
9:55 – 10:10	
10:15 – 10:30	
9:15 – 9:30	08-02-2013
9:35 – 9:50	
9:55 – 10:25	
10:30 – 10:45	
13:30 – 13:45	
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## Topics of Presentation

Time Slots	Dates of Presentation
9:15 – 9:30	14-02-2013
9:35 – 9:50	Aquarium
9:55 – 10:10	
10:15 – 10:30	



## Topics of Presentation

Topics	Student Name
<b>1) Mapping the SNR of cortical sources in MEG/EEG</b>	Ali Alfaraoon – 11/18-01-2013
<b>2) Comparison of EEG and MEG in source level</b>	Masoud Sarabi – 11/18-01-2013
<b>5) Eigenspace projection beamformers</b>	Roos Pascal – 18/25-01-2013
<b>6) MEG/EEG source reconstruction using NUTMEG</b>	Sven Jaschke – 18/25-01-2013
<b>7) Mapping human brain with MEG and EEG</b>	Julius Schmalz - 18/25-01-2013
<b>8) Data driven time frequency analysis</b>	Sumit Jha -18/25-01-2013
<b>9) Power envelope correlations – source analysis</b>	Mushfa Yousuf – 25/01-02-2013

## Topics of Presentation

Topics	Student Name
<b>9) Overview on artifact correction algorithms – Gradient</b>	Necati Ugras Babacan – 25/01-02-2013
<b>10) Spatial-temporal signal separation method</b>	Andre Iwers – 25/01-02-2013
<b>11) Phase amplitude coupling between neuronal oscillations of different frequencies</b>	Sami Alkubti Almasri – 25/01-02-2013
<b>12) Driver Fatigue: EEG and psychological assessment</b>	Stephan Senkbeil – 01/08-02-2013

## Topics of Presentation

Topics	Student Name
<b>14) Review of brain connectivity in EEG/MEG</b>	Sandra Schmidt – 01/08-02-2013
<b>17) Analyzing effective connectivity in FMRI</b>	Sönke Heidkamp and Christin Baasch -01/08-02-2013
<b>18) NIRS development and field of application</b>	Marco Klein – 01/08-02-2013
<b>4) FEM for forward Modelling</b>	Lasse Joldrichsen – 01/08-02-2013
<b>13) Review on directionality methods</b>	Riya Paul – 08/14-02-2013
<b>15) Resting state FMRI</b>	Thi thu Hien Vu – 08/14-02-2013
<b>16) New and emerging techniques for brain mapping</b>	Balachandar Vittal – 08/14-02-2013
<b>3) Sparse source imaging</b>	Jayjit Dutta – 08/14-01-2013