



FOUR MONTH PRACTICES IN FORSCHUNGSZENTRUM JÜLICH

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IV year student

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22.01.2011

Batumi summer school



2012/08/16



First visit in Jülich- 10.06 to
18.09 2013
Second visit -24.11 to 21.12
2013

INM: Institute of Neuroscience and Medicine

Structural and functional organization of the brain (INM-1)

Molecular organization of the brain (INM-2)

Cognitive Neuroscience (INM-3)

Medical Imaging Physics (INM-4)

Nuclear Chemistry (INM-5)

Computational and Systems Neuroscience (INM-6)

Neuromodulation (INM-7)

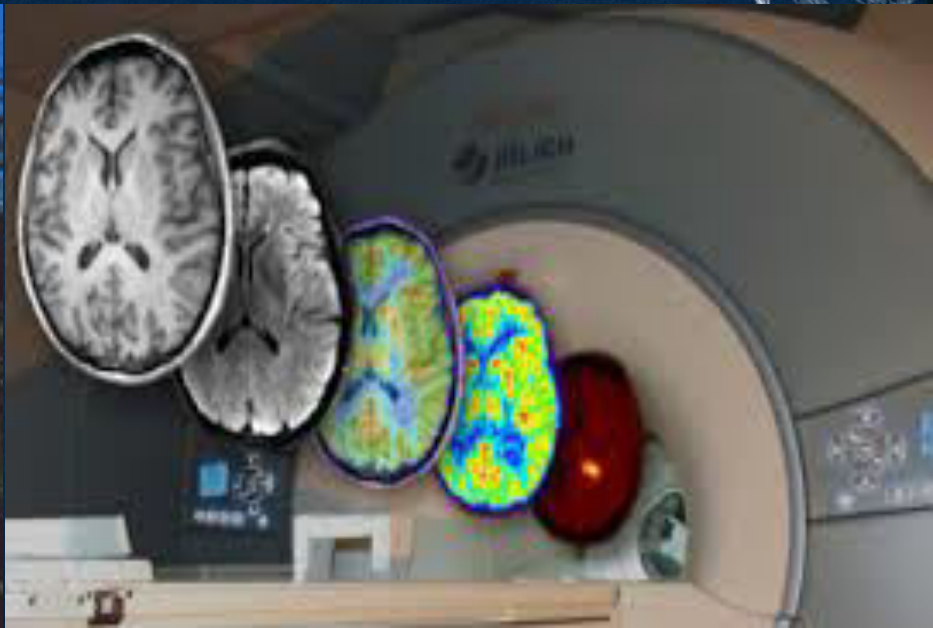
Ethics in the Neurosciences (INM-8)



Institute of Neuroscience and Medicine

Medical Imaging Physics

(INM-4)



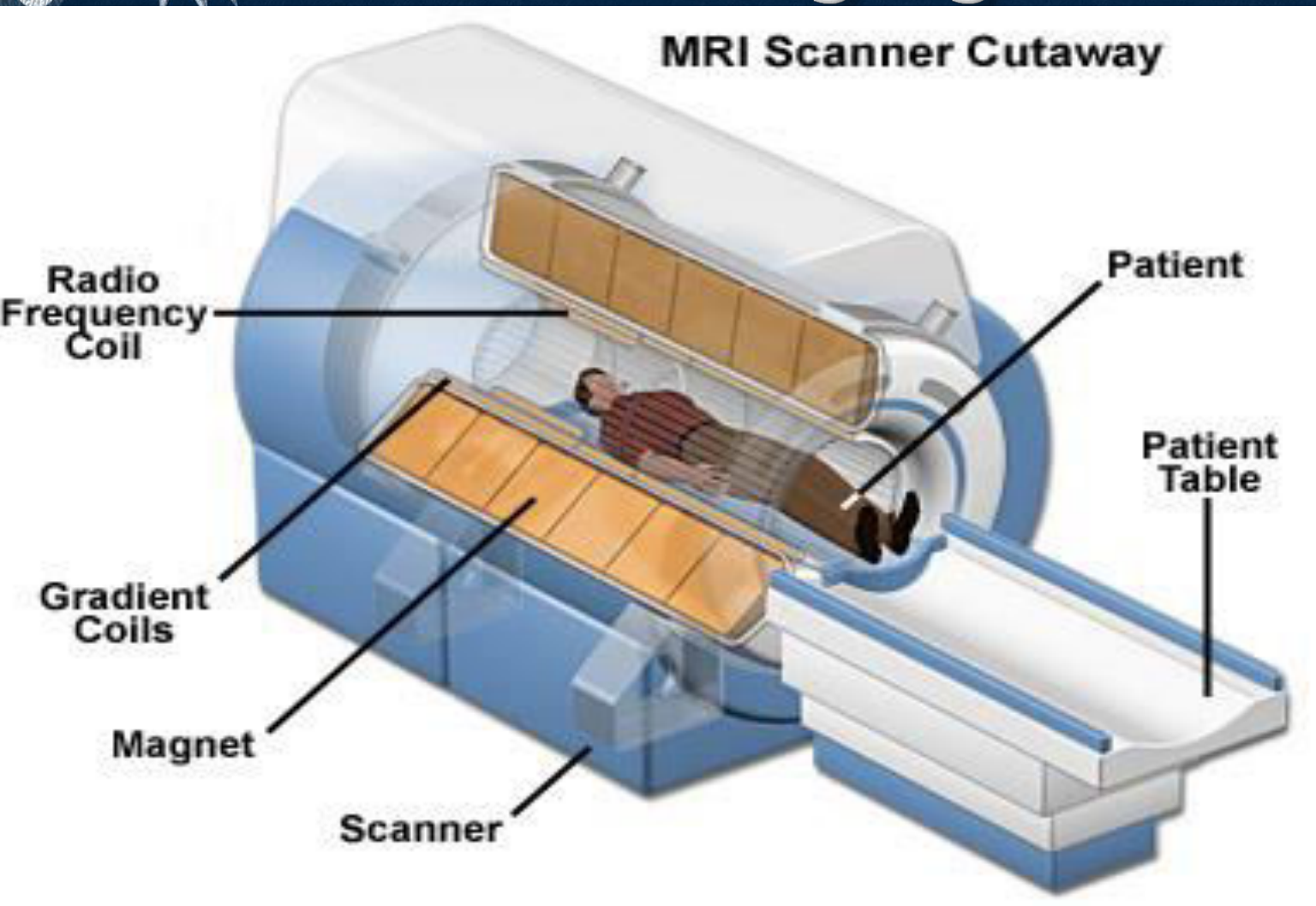
(children and adults)



1000 brain



MRI- Magnetic resonance imaging



Tag	Description	VR	VL	Value
(0008, 0005)	CHARACTER_SET	CS	10	ISO_IR 100
(0008, 0008)	IMAGE_TYPE	CS	22	ORIGINAL/PRIMARY/MND
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(0008, 0021)	SERIES_DATE			
(0008, 0022)	ACQUISITION_DATE			
(0008, 0023)	CONTENT_DATE			
(0008, 0030)	STUDY_TIME			
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(0008, 0032)	ACQUISITION_TIME			
(0008, 0033)	CONTENT_TIME			
(0008, 0050)	ACCESSION_NUMBER			
(0008, 0060)	MODALITY			
(0008, 0070)	MANUFACTURER			
(0008, 0090)	REFERRING_PHYSICIAN			
(0008, 1010)	STATION_NAME			
(0008, 1030)	STUDY_DESCRIPTION			
(0008, 103e)	SERIES_DESCRIPTION			
(0008, 1090)	MODEL_NAME			
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(0010, 0000)	PATIENT_GENDER			
(0010, 0010)	PATIENT_NAME			
(0010, 0020)	PATIENT_ID			
(0010, 0030)	PATIENT_BIRTH_DATE			
(0010, 0040)	PATIENT_SEX			
(0010, 1010)	PATIENT_AGE			

MRI Convert

Input Output Convert Help

Dicom series to convert

- Subject name: led test2
 - Study 1 20021112 ALLEGRA^BOLD
 - Series 2 20021112 ep2d_bold_TR=2 (32 slice)
 - C:\Dicom\syngol\Greg Scott\1.3.12.2.1107.5.2.7.20418.4.0.11705635532239\1.3.12.2.1107.5.2.7.20418.4.0.1351544313230
 - C:\Dicom\syngol\Greg Scott\1.3.12.2.1107.5.2.7.20418.4.0.11705635532239\1.3.12.2.1107.5.2.7.20418.4.0.1351544313230
 - C:\Dicom\syngol\Greg Scott\1.3.12.2.1107.5.2.7.20418.4.0.11705635532239\1.3.12.2.1107.5.2.7.20418.4.0.1351544313230
 - C:\Dicom\syngol\Greg Scott\1.3.12.2.1107.5.2.7.20418.4.0.11705635532239\1.3.12.2.1107.5.2.7.20418.4.0.1351544313230
 - C:\Dicom\syngol\Greg Scott\1.3.12.2.1107.5.2.7.20418.4.0.11705635532239\1.3.12.2.1107.5.2.7.20418.4.0.1351544313230
 - C:\Dicom\syngol\Greg Scott\1.3.12.2.1107.5.2.7.20418.4.0.11705635532239\1.3.12.2.1107.5.2.7.20418.4.0.1351544313230

SPM

C:\temp

- led test2
 - Series_2
 - Series_3
 - led_test_2_1_3hdr
 - led_test_2_1_3ima

led test 2Series_3led_test_2_1_3ima

Directory

Rename

New session

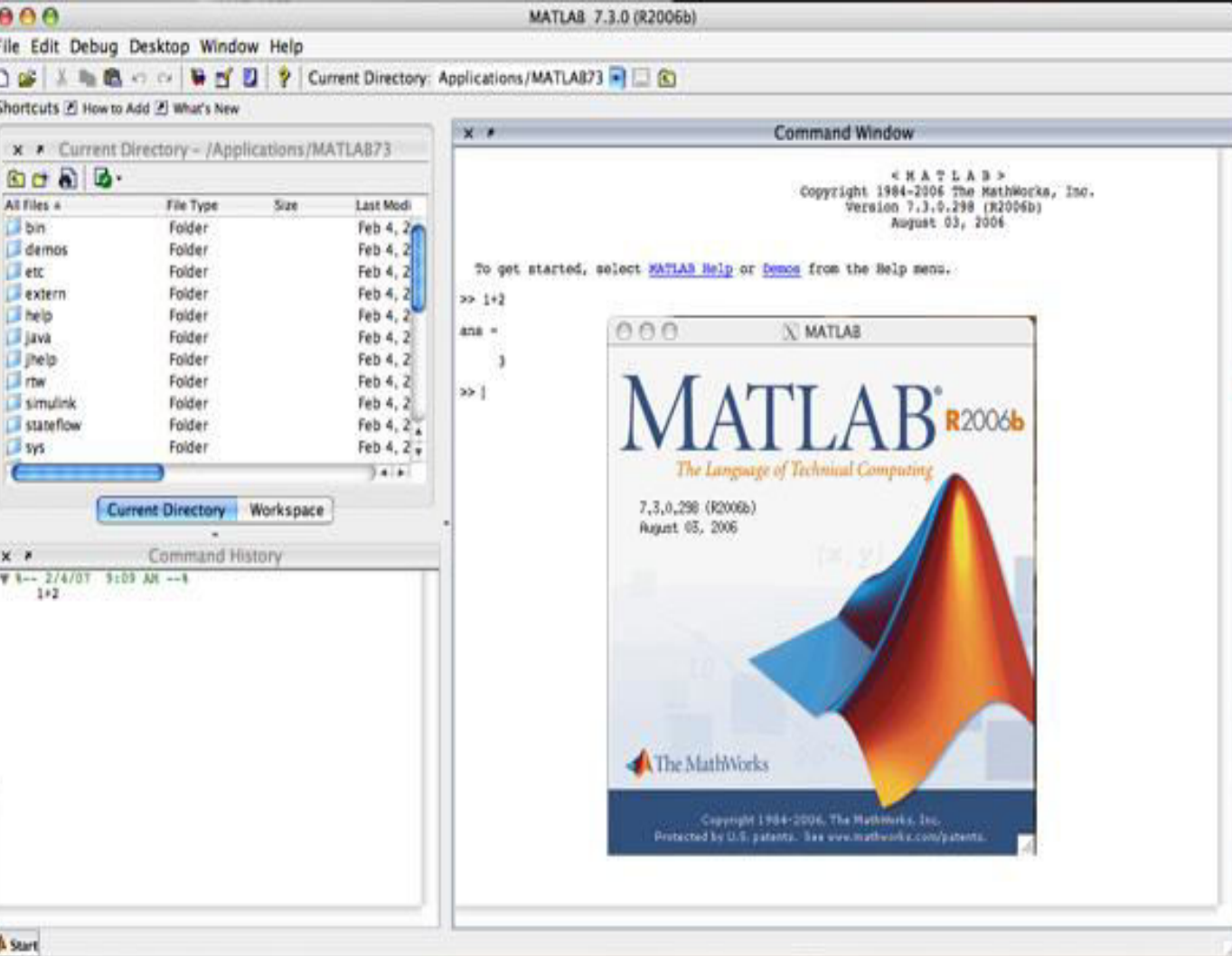
Convert all

Quit



MRI- dcom-nii Fails

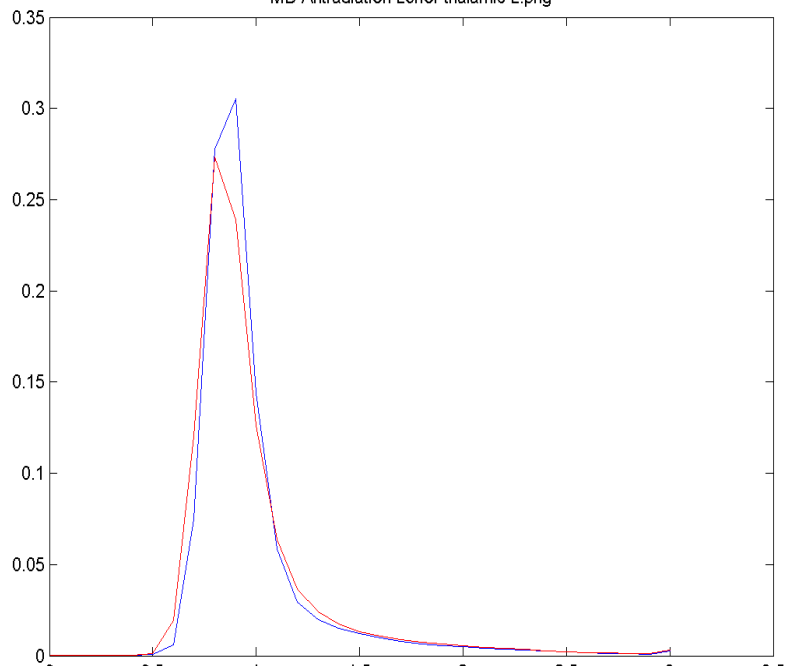




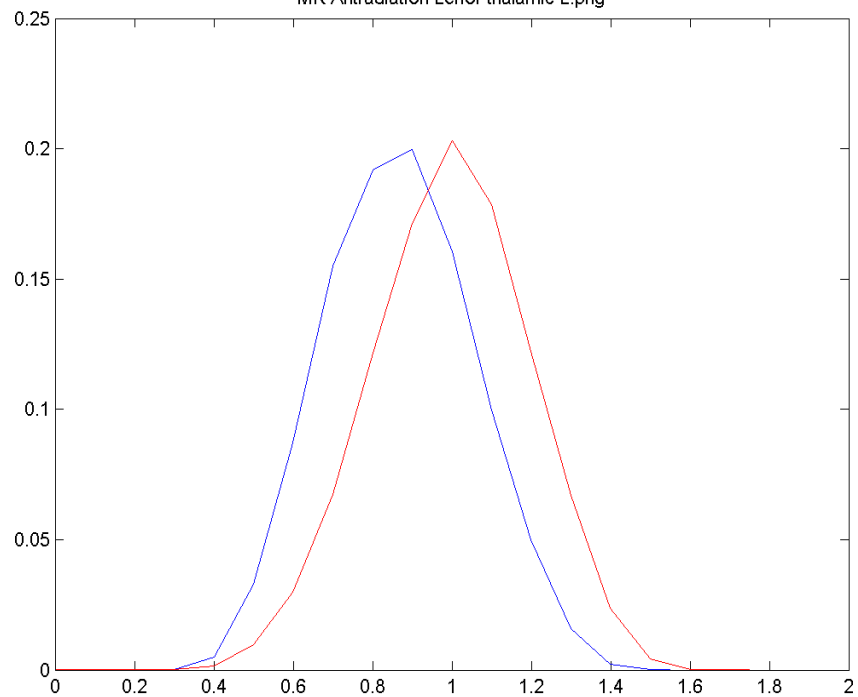
Important part of our work



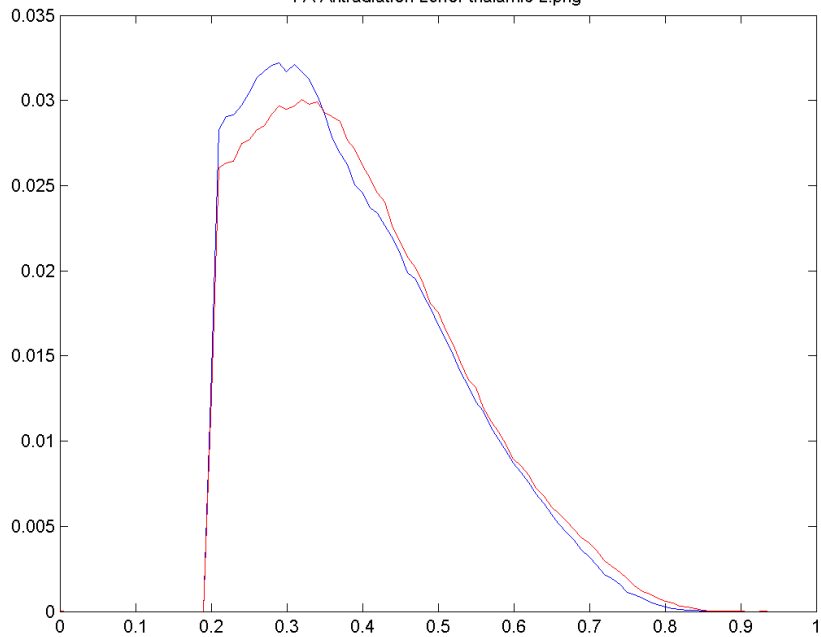
MD Antradiation Lerior thalamic L.png



MK Antradiation Lerior thalamic L.png



FA Antradiation Lerior thalamic L.png



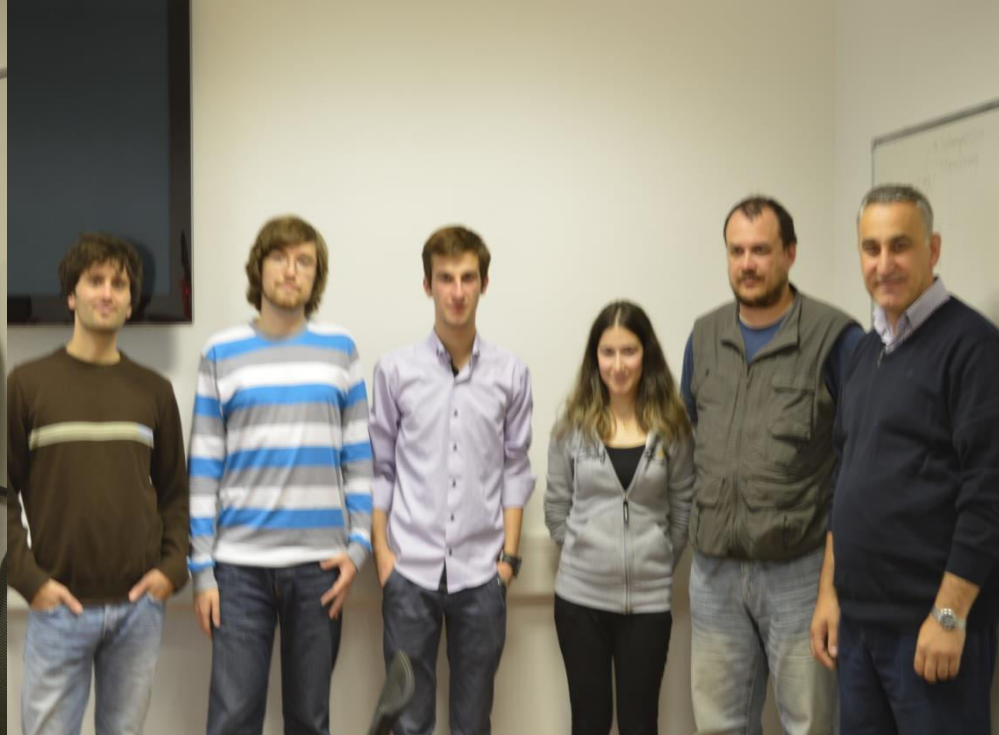
results



Amateur







Spatial Thanks

- ▣ Prof. Ketevan kotetishvili, DR. Andro Kacharava for supervising and successful advises
- ▣ Prof. dr. N. Jon Shah, Dr. Farida Grinberg,-for inviting and for opportunity to get experience. And also Prof. Hans Stroehler



Thank you!

გმადლობთ