

# Aktuelle Probleme der Physik der bildgebenden Verfahren (E020 Abteilungsseminar) im Sommersemester 2014

## Inhaltsübersicht

### DKFZ, Abteilung Medizinische Physik in der Radiologie

Im Neuenheimer Feld 280, großer Seminarraum (N102a), dienstags 15:00 Uhr, s.t.

#### Seminarprogramm

<b>15.04.2014</b>	<b>Dr. Marcus Brehm, X-Ray Imaging and CT</b> Motion Compensation in Computed Tomography	<b>Kachelrieß</b>
	<b>Andreas Korzowski, MR Spectroscopy / CEST</b> Double Resonance in NMR Experiments	<b>Bachert/Zaiß</b>
<b>22.04.2014</b>	<b>Christine Gnahm, 7 Tesla</b> Iterative reconstruction of $^{23}\text{Na}$ MRI using $^1\text{H}$ prior information	<b>Nagel/Umathum/Bitz</b>
	<b>Xiaoming Jiang, Emission Tomography</b> 3D Surface reconstruction for micro-lens array based optical detectors	<b>Peter</b>
<b>29.04.2014</b>	<b>Dr. Jens Cardinale, Molecular Imaging</b> Ongoing development of a bioorthogonal coupling strategy for the in vivo coupling of antibodies with magnetic nanoparticles and fluorine-18.	<b>Komljenovic</b>
	<b>Nicolas Behl, 7 Tesla</b> 3D-Dictionary-Learning-CS Reconstruction of Radial $^{23}\text{Na}$ -MRI-data	<b>Nagel/Umathum/Bitz</b>
<b>06.05.2014</b>	<b>Dr. Frederik Laun, Diffusion Imaging</b> Report on research stay in Wellington	<b>Laun</b>
	<b>Sören Schüller, X-Ray Imaging and CT</b> Artifact Reduction and Special Demands in Digital Volume Tomography	<b>Kachelrieß</b>
<b>13.05.2014</b>	<b>fällt aus (ISMRM)</b>	
<b>20.05.2014</b>	<b>Dr. Martina Flöser, 7 Tesla</b> ISMRM conference: News about pTx-pulse design	<b>Nagel/Umathum/Bitz</b>
	<b>N.N., MR Spectroscopy / CEST</b> TBD	<b>Bachert/Zaiß</b>
<b>27.05.2014</b>	<b>Barbara Flach, X-Ray Imaging and CT</b> Low Dose Tomographic Fluoroscopy	<b>Kachelrieß</b>
	<b>Weirui Cai, 7 Tesla</b> ISMRM conference: News about RF-coil design	<b>Nagel/Umathum/Bitz</b>
<b>03.06.2014</b>	<b>Dr. Matias Nordin, Diffusion Imaging</b> Non-linear NMR Diffusometry	<b>Laun</b>
	<b>Dr. Dorde Komljenovic, Molecular Imaging</b> Synthesis of theranostic cyanine dye-based agents: effects on prostate cancer cells in vitro	<b>Komljenovic</b>
<b>10.06.2014</b>	<b>N.N., 7 Tesla</b> TBD	<b>Nagel/Umathum/Bitz</b>
	<b>N.N., MR Spectroscopy / CEST</b> TBD	<b>Bachert/Zaiß</b>

<b>17.06.2014</b>	<b>N.N., 7 Tesla</b> TBD <b>Lars Müller, Diffusion Imaging</b> Measuring Apparent Exchange Rates by Double Diffusion Weighted MRI I	<b>Nagel/Umathum/Bitz</b> <b>Laun</b>
<b>24.06.2014</b>	<b>Steffen Paar, Emission Tomography</b> Instrumentation concept for MR compatible detection of light photons <b>N.N., 7 Tesla</b> TBD	<b>Peter</b> <b>Nagel/Umathum/Bitz</b>
<b>01.07.2014</b>	<b>Moritz Krafft, Molecular Imaging</b> Evaluation of a bimodal contrast agent using MRI and PET for early detection of experimental breast cancer bone metastasis <b>N.N., MR Spectroscopy / CEST</b> TBD	<b>Komljenovic</b> <b>Bachert/Zaiß</b>
<b>08.07.2014</b>	<b>fällt aus (FSE-Begutachtung)</b>	
<b>15.07.2014</b>	<b>N.N., 7 Tesla</b> Titel <b>Christopher Rank, X-Ray Imaging and CT</b> Quantification in Clinical PET/MR	<b>Nagel/Umathum/Bitz</b> <b>Kachelrieß</b>
<b>22.07.2014</b>	<b>Dr. Jan Kuntz, X-Ray Imaging and CT</b> C-Arm CT Reconstruction <b>N.N., 7 Tesla</b> TBD	<b>Kachelrieß</b> <b>Nagel/Umathum/Bitz</b>

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**Gastgeber:** Prof. Dr. Mark E. Ladd, Prof. Dr. Peter Bachert, Dr. Andreas Bitz, Prof. Dr. Marc Kachelrieß, Dr. Dorde Komljenovic, Dr. Frederik Laun, Dr. Armin Nagel, Dr. Jörg Peter, Dr. Reiner Umathum, Dr. Moritz Zaiß

**Organisation:** Prof. Dr. Mark E. Ladd (Tel. 06221-42 2550)