

SECOND HEIDELBERG SUMMER SCHOOL 2018 „NOVEL METHODS IN IMAGE GUIDED RADIOTHERAPY“
11.09.-14.09.2018, DKFZ COMMUNICATION CENTER. K2

Time	TUESDAY, 11.09.2018	Time	WEDNESDAY, 12.09.2018
10.00 – 11.00	Registration	09.00 – 9.45	M. Guckenberger: Keynote – SBRT
		9.45 – 10.10	D. Schmitt: IGRT at Cyberknife HD
10.20 - 11.00	Welcome Coffee	10.10 - 10.20	Discussion
		10.20 - 10.45	Coffee break
11.00 – 11.25	Welcome and Introduction O. Jäkel/J. Debus, Participants	10.45 – 11.10	P. Georg: Medical aspects of image guided proton therapy
11.25 – 12.15	A. Schwahofer: Overview – State of the art in clinical IGRT and limitations	11.10 – 11.35	A. Hoffmann: Physics of MR guided Proton Therapy
		11.35 – 11.45	Discussion
12.15 -12.30	Discussion: Moderation O. Jäkel	12.00 – 12.30	Get together MR Linac Symposium at University Hospital Heidelberg
12.30 – 13.30	Lunch break	12.30 – 12.45	Welcome
13.30 – 13.55	O. Jäkel: Heidelberg site and technical developments	12.40 – 13.00	J. Debus: Introduction
		13.00 – 13.25	A. Pfaffenberger: From offline to online MRgRT
13.55 – 14.20	J. Debus: IGRT: What was the promise 10 y ago? What did we expect? Where will the future go?	13.25 – 13.50	S. Klüter: Commissionion MR Linac
		13.50 - 14.15	J. Hörner-Rieber: MR LinacClinical experience
14.20 - 14.45	A. Pfaffenberger: MRgRT Developments	14.15 - 14.45	Keynote B. Slotman: MR guided adaptive radiotherapy: a clinical reality
14.45 – 15.00	Discussion: Moderation O. Jäkel	14.45 - 15.00	Discussion
15.00 – 15.30	Coffee break	15.00 – 15.30	Coffee break
15.30 – 17.00	Science Slam (Participants) Moderation: Philipp Mann	15.30 – 16.00	M. Ladd: Development of MRI - How much field is enough?
		16.00 - 16.20	D. Thorwarth: First experience with a 1.5T MR-Linac
		16.20 - 16.30	Discussion
		16.30 – 17.00	M. Alber: Challenges in adaptive radiotherapy
		17.00 – 17.30	O. Jäkel: Next step: MR guided proton therapy
17.30 – 18.00	General Discussion		
17.00 – 17.10	Break	18.00 - 19.00	Guided Tours: Cyberknife
17.10 - 18.30	Get-together		Farewell and Snacks

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Time	THURSDAY, 13.09.2018	Time	FRIDAY, 14.09.2018
09.10 – 9.55	<i>B. Raaymakers: Keynote - MR Linac at UMC Utrecht</i>	09.10 – 9.55	<i>D. Thorwarth: Keynote – Biological Imaging for RT</i>
9.55 – 10.20	<i>F. Friedrich: Real-time motion tracking in MRI</i>	9.55 – 10.20	<i>Ch. Glowa: Hypoxic Imaging with PET</i>
10.20 - 10.35	Discussion	10.20 - 10.35	Discussion
10.30 – 11.00	Coffee Break	10.30 – 11.00	Coffee break
11.00 – 11.25	<i>Ph. Mann: Low Field MRI and contrasts</i>	11.00 – 11.25	<i>G. Landry: PET for Particle therapy</i>
11.25– 11.50	<i>K. Spindeldreier: Dosimetry in magnetic fields</i>	11.25– 11.50	<i>M. Martiskova: Prompt protons</i>
11.55 - 12.15	<i>Ph. Mann: QA for MR guidance</i>	11.50 - 12.15	<i>J. Seco: Proton CT</i>
12.15 – 12.35	<i>L. Burigo: Monte Carlo Methods for MR guidance</i>		
12.35 - 12.45	Discussion	12.15 - 12.30	Discussion
12.45 – 13.45	Lunch break	12.30	<i>Closing: O. Jäkel</i>
13.45 – 15.05	<i>Round Table with Experts: Tbd 20 min. Slots</i>		
15.05 – 15.30	Coffee break		
15.30 – 16.15	<i>M. Schwarz: Keynote - Image guided Proton therapy</i>		
16.15 – 16.40	<i>K. Schubert: Tomotherapy – Afford by image guidance</i>		
16.40 – 17.05	<i>Online G. Fallone: Report from Canada</i>		
17.05 - 17.15	Discussion		
17.15 - 17.30	Break		
17:30 - 18:30	Guided Tours: MR-Linac		
19.00	Dinner		

Please note: The Summer School includes the MR-Linac Inauguration Symposium on Wednesday 12.09.2019. The Symposium will take place at Heidelberg University Hospital, Lecture hall, Im Neuenheimer Feld 400. Walking Distance ca. 10 min.; Organization: Dr. Nicole Grau.

Lecturers Summer School:

Prof. Dr. Markus Alber, University Hospital Heidelberg, Clinic for für Radiooncology and Radiotherapy
Prof. Dr. Dr. Jürgen Debus, University Hospital Heidelberg, Clinic for für Radiooncology and Radiotherapy
Prof. Dr. Gino Fallone, Medical Physics, Cross Cancer Institute, University of Alberta, Canada (tbc)
Prof. Dr. Mathias Guckenberger, Clinic for Radiooncology, University Hospital Zuerich, Switzerland
Prof. Mark Ladd, DKFZ Heidelberg, Division of Medical Physics in Radiology
Prof. Dr. Oliver Jäkel, DKFZ Heidelberg, Division of Medical Physics in Radiation Oncology
Prof. Dr. Bas Raaymakers, Department of Radiotherapy, University Medical Center Utrecht, Netherland
Prof. Dr. Joao Seco, DKFZ Heidelberg, Division of Biomedical Physics in Radiation Oncology
Prof. Dr. Daniela Thorwarth, Section Biomedical Physics, University Hospital for Radiooncology, Tübingen
Dr. Lucas Burigo, DKFZ Heidelberg, Division of Medical Physics in Radiation Oncology
PD Dr. Petra Georg, Department Radiooncology, EBG Medaustrom, Vienna, Austria
Dr. Christin Glowa, DKFZ Heidelberg, Division of Medical Physics in Radiation Oncology
Dr. Aswin Hoffmann, Institut for Radiooncology – OncoRay, Dresden
Dr. Juliane Hörner-Rieber, University Hospital Heidelberg, Clinic for für Radiooncology and Radiotherapy
Dr. Sebastian Klüter, University Hospital Heidelberg, Clinic for für Radiooncology and Radiotherapy
Dr. Guillaume Landry, Department of Medical Physics, Faculty of Physics, LMU Munich
Dr. Philipp Mann, DKFZ Heidelberg, Division of Medical Physics in Radiation Oncology
Dr. Maria Martisikova, DKFZ Heidelberg, Division of Medical Physics in Radiation Oncology
Dr. Asja Pfaffenberger, DKFZ Heidelberg, Division of Medical Physics in Radiation Oncology
Dr. Daniela Schmitt, University Hospital Heidelberg, Clinic for für Radiooncology and Radiotherapy
Dr. Kai Schubert, University Hospital Heidelberg, Clinic for für Radiooncology and Radiotherapy
Dr. Andrea Schwahofer, DKFZ Heidelberg, Division of Medical Physics in Radiation Oncology
Dr. Marco Schwarz, Protontherapy Department, Trento Hospital Italy
Dr. Katharina Spindeldreier, University Hospital Heidelberg, Clinic for für Radiooncology and Radiotherapy
Florian Friedrich, DKFZ Heidelberg, Division of Medical Physics in Radiology
tbc: Ben Slotman, VU University Medical Center Amsterdam, Department of Radiotherapy, Netherland