

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: Moderation O. Jäkel
		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	J. Debus: IGRT: What was the promise 10 y ago? What did we expect? Where will the future go?	11.10 – 11.35	A. Hoffmann: Physics of MR guided Proton Therapy
		11.35 – 11.45	Discussion: Moderation O. Jäkel
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	12.45 – 13.00	J. Debus: Introduction
		13.00 – 13.25	A. Pfaffenberger: From offline to online MRgRT
13.55 – 14.20	A. Schwahofer: IGRT workflows and adaptive RT	13.25 – 13.50	S. Klüter: Commissionion
		13.50 - 14.15	J. Hörner-Rieber: Clinical 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 and Conclusion		
17.00 – 17.10	Break	18.00 - 19.00	Farewell and Snacks
17.10 - 18.30	Get-together	18:00-19:00	Guided Tours: Cyberknife and MR-Linac (summer school participants only)

Kindly supported by:



ROLAND ERNST-STIFTUNG
IM STIFTERVERBAND

Accredited by



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: Moderation P. Mann	10.20 - 10.35	Discussion: Moderation J. Seco
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: Proton Dose calculations on CBCT images</i>
11.25– 11.50	<i>K. Spindeldreier: Dosimetry in magnetic fields</i>	11.25– 11.50	<i>M. Martisikova: 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: Moderation P. Mann	12.15 - 12.30	Discussion: Moderation J. Seco
12.45 – 13.45	Lunch break	12.30	Closing: O. Jäkel
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>Video lecture G. Fallone: Report from Canada</i>		
17.05 - 17.20	Discussion: Moderation O. Jäkel		
	Walk along the river to the Restaurant		
18.00	Dinner: Restaurant “Zum Achter”		

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