

MRI in radiotherapy, Advanced course

Tuesday 9 October 2018

9:30 – 9:35	Welcome / Introduction	Marielle Philippens
9:35 – 10:15	MR Physics	Marielle Philippens
10:15 – 11:15	Hardware 1: MR System Overview	Hans Hoogduin
11:15 – 11:30	Coffee break	
11:30 – 12:30	Hardware 2: Transmit and receive coils	Nico van den Berg
12:30 – 13:15	Lunch	
13:15 – 14:00	MR Sequences 1: Image Formation	Rob Tijssen
14:00 – 14:45	MR Sequences 2: Contrast	Marielle Philippens
14:45 – 15:00	Coffee break	
15:00 – 17:30	Practical exercises Inversion recovery	Tim Schakel Bjorn Stemkens

Practical exercises

- Matlab simulations on inversion recovery
- QA evaluations
- Protocol optimization
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Wednesday 10 October 2018

9:30 – 10:15	QA 1: Geometric accuracy	Marielle Philippens
10:15 – 11:00	QA 2: Image quality	Rob Tijssen
11:00 – 11:15	Coffee break	
11:15 – 12:00	Quantitative imaging 1: Dynamic contrast enhanced MRI	Marielle Philippens
12:00 – 12:45	Lunch	
12:45 – 13:30	ELPS / QA Demonstrations	Tim van der Linden Wilfred de Vries
13:30 – 14:15	Quantitative imaging 2: Diffusion weighted MRI	Tim Schakel
14:15 – 14:30	Coffee break	
14:30 – 17:30	Practical exercises Protocol optimization	Tim Schakel Bjorn Stemkens

Thursday 11 October 2018

9:30 – 10:15	MR guided brachytherapy	Peter Seevinck
10:15 – 11:00	MR Linac: physics	Rob Tijssen
11:00 – 11:15	Coffee break	
11:15 – 12:00	MR-only radiotherapy	Nico van den Berg
12:00 – 12:45	4D MRI	Bjorn Stemkens
12:45 – 13:30	Lunch	
13:30 – 16:00	Practical exercises Imaging applications	Tim Schakel Bjorn Stemkens
16:00	Closing	

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