

Medical physics for image-guided cancer therapy

Bad Honnef Physics School 2025

Time	Sunday Sep 28	Monday Sep 29	Tuesday Sep 30	Wednesday Oct 1	Thursday Oct 2	Friday Oct 3
07:30		Breakfast				
09:00-10:00		What is health and what is disease (Matthias Schneider)	X-ray imaging (Franz Pfeiffer)	Radiation biology (Brita Sørensen)	Radiation therapy: particles (Katia Parodi)	New horizons in imaging (Pfeiffer, Bock, tbc, Ziegler)
10:00-10:30		Discussion	Discussion	Discussion	Discussion	Discussion
10:30-11:00		Coffee				
11:00-12:00		Whole-body blood flow simulations for cancer therapy (Sebastian Tattenberg)	MR imaging (Michael Bock)	Radiation therapy: X-rays (Thomas Bortfeld)	Nuclear medicine imaging, theranostics (Sibylle Ziegler)	New horizons in RT (Parodi, Bortfeld, Sørensen, Pogue)
12:00-12:30		Discussion	Discussion	Discussion	Discussion	Discussion
12:30	Arrival	Lunch				
14:00-15:00		Imaging in prevention, diagnostics & image guidance (Martin Fiebich)	US Imaging (tbc)	Excursion	AI in diagnostics & therapy (Jens Kleesieck)	Departure
15:00-15:30		Discussion	Discussion		Discussion	
15:30-16:00		Coffee			Coffee	
16:00-18:30						
18:30		Dinner				
20:00	Kick-off: Biomedical engineering and medical physics (Parodi, Pfeiffer, Bortfeld)	Poster presentations (students)	Social activities (excursion or team games, depending on weather)	Evening talk: Advances in optical techniques (Brian Pogue)	Poster presentations (students)	