Monday, 19.09.2022

			Room	Zoom
Opening 09:00-09:50	**Opening Ceremony**		**DKFZ auditorium + streaming in Mathematikon & Bioquant**	[Zoom](#)
Keynote 09:50-10:40	**Roeland Merks** Cell-based modeling in cell and developmental biology: from individual cell behavior to collective pattern formation			
10:40-11:00	**Coffee Break (DKFZ/BioQuant/Mathematikon)**			
MS 1 11:00-12:40	**Mathematical modelling in radiation oncology – an RRS/SMB minisymposium** Heiko Enderling & Jan Schuemann		**DKFZ auditorium**	[Zoom](#)
	Investigating the dynamics of many - Mathematical modeling and parameter estimation for multi-cellular systems Frederik Graw, Franziska Matthäus, Jan Hasenauer & Lutz Brusch		**BioQuant SR42**	[Zoom](#)
	Boolean networks and related modeling frameworks – Part I: Model design and analysis Claus Kadelka		**BioQuant SR43**	[Zoom](#)
	Mathematical biology of signaling and metabolism at synapses Guadalupe C. Garcia, Mayte Bonilla Quintana & Padmini Rangamani		**BioQuant SR44**	[Zoom](#)
	Controlling epidemics: the interplay between models and public health policies Vicenzo Capasso & Alberto d'Onofrio		**Mathematikon Hörsaal**	[Zoom](#)
	Evolutionary dynamics in structured populations: modelling, analytics and numerics Silvia Cuadrado & Tommaso Lorenzi		**Mathematikon SR A + B**	[Zoom](#)
	Dynamics of blood flow in microcirculation Yaron Ben-ami, Helen Byrne & George William Atkinson		**Mathematikon SR C**	[Zoom](#)
12:40-14:30	**Lunch**		**Mensa**	
MS 2 14:30-16:10	**Collective cell migration in cancer growth and spread: interacting dynamics at multiple spatial scales** Dumitru Trucu & Raluca Eftimie		**DKFZ auditorium**	[Zoom](#)
	Multi-scale phenomena in biology: modelling and analysis Annalisa Iuorio & Cinzia Soresina		**BioQuant SR41**	[Zoom](#)
	Stochastic Modelling of Genetic and Biochemical Systems - Part I Abhyudai Singh & Ramon Grima		**BioQuant SR43**	[Zoom](#)
	Mathematics for cell migration under the influence of the microenvironment: from single cells to populations Anna Zhigun & Christina Surulescu		**Mathematikon Hörsaal**	[Zoom](#)
	Mathematical modeling of psychiatric disorders and addiction Lucas Böttcher, Tom Chou & Maria R. D'Orsogna		**Mathematikon SR A+B**	[Zoom](#)
	Pattern formation in developmental processes Franziska Matthäus & Tim Liebsch		**Mathematikon SR C**	[Zoom](#)
16:10-16:30	**Coffee Break (DKFZ/BioQuant/Mathematikon)**			
CT 1 16:30-18:10	**Mathematical Oncology**		**DKFZ auditorium**	[Zoom](#)
	Population Dynamics, Ecology and Evolution		**BioQuant SR41**	[Zoom](#)
	Population Dynamics, Ecology and Evolution		**BioQuant SR42**	[Zoom](#)
	Gene Networks		**BioQuant SR43**	[Zoom](#)
	Mathematical Neuroscience	**Model Identification/ Estimation**	**BioQuant SR44**	[Zoom](#)
	Mathematical Epidemiology		**Mathematikon Hörsaal**	[Zoom](#)
	Methods Development		**Mathematikon SR A+B**	[Zoom](#)
	Mathematical Physiology		**Mathematikon SR C**	[Zoom](#)
NSF 18:10-19:00	**Funding opportunities for Mathematical Biology at the NSF and the NIH** Zhilan Feng (NSF/DMS/Math Bio) Joseph Whitmeyer (NSF/SBE/SES) Han Nguyen (NIH/NIGMS)		**DKFZ auditorium**	[Zoom](#)
Posters 19:00-20:30	**Mathematical Oncology**		**DKFZ Foyer (EG)**	
	Population Dynamics, Ecology & Evolution	**Developmental Biology** **Mathematical Neuroscience**	**Mathematikon Foyer (UG)**	