



# Real-time Adaptive Particle Therapy of Cancer

## 2<sup>nd</sup> SCHOOL - LOOP REQUIREMENTS 4<sup>th</sup>-9<sup>th</sup> SEPTEMBER 2022, Ljubljana

	Sunday, Sept. 4 <sup>th</sup> CosyLab Headquarter	Monday, Sept. 5 <sup>th</sup> CosyLab Headquarter	Tuesday, Sept. 6 <sup>th</sup> CosyLab Headquarter	Wednesday, Sept. 7 <sup>th</sup> The Jožef Štefan Institute (TBC)	Thursday, Sept. 8 <sup>th</sup> CosyLab Headquarter	Friday, Sept. 9 <sup>th</sup> CosyLab Headquarter	
08:30			Control systems for ART	Logfile-based (4D) dose reconstruction	Clinical Monte Carlo for particles		08:30
09:00		Young Researcher Expectation roundtable	Jasna Hengovic	Ye Zhang	Lars Glimelius	Hackathon Challenge	"RAPTOR beyond RAPTOR"
09:30			Clinical QA procedures and their applicability in ART		Projection Methods, Superiorization and Applications		
10:00			Kristin Stutzer	New Product Development: Systems engineering approach for Regulatory compliance <i>Fritz DeLongh</i>	Aviv Gibali		
10:30			COFFEE BREAK	COFFEE BREAK	Challenges of operating a PT facility		
11:00		Deep Learning meets Imaging Science: Explainable Hybrid Solvers for Medical Imaging <i>Gitta Kutyonik</i>	Industrialization <i>Caterina Brusasco</i>	Karen Kirkby	Deformable Image Registration -Paganelli	Hackathon Challenge	"RAPTOR beyond RAPTOR"
11:30		AI in Radiotherapy – Machine Learning and Deep Learning for Treatment Planning <i>Zoltan Perko</i>	Big data: fast access, transfer, storage <i>Thomas Stibor</i>	LUNCH BREAK	Automated Contouring in the context of ART- <i>Sonke</i>		
12:00		LUNCH BREAK	LUNCH BREAK	Rock Mackie "Innovations in medical physics"	LUNCH BREAK		
12:30		LUNCH BREAK	LUNCH BREAK	LUNCH BREAK	LUNCH BREAK		
13:00			Health Economics	COFFEE BREAK			
13:30			Yolande Lievens	Certification standards: Health, Safety, Environmental	Supervisory BOARD Annual Meeting		
14:00		Big data: acquiring and using large datasets/ Big Data in a Clinical Context <i>Giorgio Ruffa</i>	Social activity	Marjetka Kralj Kunčič			
14:30	Arrival to Ljubljana	Biostatistics <i>Maja Pohar Perme</i>		Data Constructs and Computations in Adaptive Radiotherapy <i>Hanne Kooy</i>	Clinical needs for adaptive proton therapy <i>Esther TROOST</i>		
15:00		COFFEE BREAK		Prompt gamma / particle imaging <i>Christian Richter</i>	Concluding remark		
15:30	Welcome	Inventions, patents and crime – What a researcher needs to know about IP <i>Matthias Schindler</i>		Social Dinner	General Assembly		
16:00	Entrepreneurship <i>Mark Plesko</i>	Gender, Inclusion and Gendered Innovation I <i>Lucia Martinelli</i>	Poster Presentation APERO-offered by CosyLab				
16:30		Free evening					
17:00							
17:30							
18:00							
18:30	Apero -offered by CosyLab						
19:00							
19:30							

  

LEGEND	Public Talk	Kindly offered by CosyLab
	Social Activity	FOR RAPTOR CONSORTIUM Only
		WORKSHOP open to all participants

