Young Investigator's Workshop
on Photon Detection for Medical Applications
– Final Circular –

Dear participant

Nov 12, 2019

Time flies and our workshop is just ahead of us now. This is why I would like to provide you with some last information and reminders.

The workshop will start on Monday 2nd of December at 8:45 am. Location: Universität Siegen, Adolf-Reichwein-Straße 2, Room number HB-0204. Laptop and projector are provided as well as walls for DIN A0-sized posters. Please bring your presentation either on a USB stick or send it to me in advance via email (PDF preferred!).

There will be food vouchers for lunch so that only the conference dinner is payed by yourselves and of course coffee breaks are for free :)

In case you have not booked a hotel yet, there are several options online (see URL below). If you would like to be paired up with someone to share a room and reduce travel expenses, we can still try to make arrangements for that.

Please, also have one last look at the time table and check for correct names, title and affiliation.

All Information Available Online
All documents regarding the workshop and organizing matters like **descriptions on public transport** and **maps of the event locations** are also available online using the following URL:
https://www.hep.physik.uni-siegen.de/~bayerlein/Workshop_2019/youngInvestigatorWS.php

Please do not hesitate to ask for help.

I am very much looking forward to welcoming you all in Siegen.

Best regards

M.Sc. Reimund Bayerlein

Supported by:

MediNet

Contact:

Reimund Bayerlein
bayerlein@
hep.physik.uni-siegen.de

Office: +49 271 740 35 29
Mobile: +49 163 678 72 93

Department of Physics
Walter-Flex-Straße 3
57072 Siegen
Germany

Young Investigator's Workshop -- Monday

Time	Item	Presenter	Details	Affiliation
08:45	Opening	R. Bayerlein	*About the Workshop and Organizing Matters*	Uni Siegen
09:00	Welcome Talk	P. Thirolf	*Introduction and MediNet*	LMU Munich
09:30	PET and TOF based range verification in particle therapy	I. Ozoemelam	*Towards real-time PET-based range verification in particle radiotherapy*	KVI Groningen
10:00		M. Jacquet	*A 3D TOF detection system for online range-monitoring in hadron therapy*	Uni Grenoble
10:30		T. Rodriguez	*Experimental measurement of the production yields of the short lived beta+ emitters 12N, 29P and 38mK for online PET verification in proton therapy*	University of Sevilla
11:00	Coffee Break			
11:30	Compton Camera (CC)	T. Binder	*Characterization of a second generation monolithic Compton camera absorber*	LMU Munich
12:00		H. Bäcker	*Investigation of the feasibility of a Compton camera using Cherenkov light from Compton scattered electrons using Geant4 Simulations*	Uni Siegen
12:30		N. Kohlhase	*Image reconstruction approaches for Compton cameras towards range verification in particle therapy*	Uni Lübeck
13:00	Lunch Time		Food at the local Mensa	
14:00	SiFi-CC experiment – new design for online range verification	J. Kasper	*The SiFi-CC experiment – a new design for a Compton camera for online range verification in proton therapy*	Aachen University
14:30		K. Rusiecka	*Investigation of heavy inorganic-scintillator for a fiber-based detector (SiFi-CC)*	Institute Krakow
15:00	Poster Session with Coffee and Cake	R. Bayerlein	*Gamma ray detection using Cherenkov light from Compton scattered electrons*	Uni Siegen
		O. Allegrini	*Tests and characterization of BGO blocks for gamma detection in medicine*	Institute Lyon
		F. Permatasari	*Phase Oscillations Influence Timing Measurements at Medical Treatment Facilities*	OncoRay Dresden
		P. Teubig	*Detection of high-energy photons with the electromagnetic calorimeter CALIFA*	Lisbon
16:15	**Plenary Talk** With a Round of Discussions	T. Kögler	*Range Verification in Particle Therapy – From Physics in the Lab Towards Clinical Applications*	OncoRay Dresden
17:45	End of the Official Part			
19:00	Conference Dinner		Local Food and Beer at Früh Kölsch	

Young Investigator's Workshop -- Tuesday

Time	Item	Presenter	Details	Affiliation
09:30	Further Developments in Prompt Gamma (PG) Detection	C. LaTessa	*Enhancing gamma production for online dose verification in proton therapy*	University Trento
10:30		G. Traini	*PAPRICA: a pair-production chamber for prompt gamma detection in Particle Therapy*	INFN Milan
11:00	Coffee Break			
11:30	PET and TOF-PET (Session 1)	L. Yin	*Evaluation of RF shielding materials for highly-integrated PET/MRI systems*	RWTH Aachen
12:00		V. Nadig	*Update on Multi-channel experiments featuring the TOFPET2 ASIC*	RWTH Aachen
12:30		F. Müller	*Evaluation and Optimization of a Semi-Monolithic detector providing intrinsic DOI-encoding and TOF-capabilities for Clinical Applications*	RWTH Aachen
13:00	Lunch Time		Food at the local Mensa	
14:00	PET and TOF-PET (Session 2)	K. Krüger	*Implementation of sorting algorithms in FPGAs for positron emission tomography detector data*	RWTH Aachen
14:30		S. Seeger	*MERMAID - Radioisotope imaging of small aquatic animals*	Uni Lübeck
15:00		W. Adi	*Development and Characterization of detectors for measurements of production cross sections of PET-Isotopes for applications in Ion-beam therapy with preliminary simulation results*	Uni Gießen
15:30	Discussion and Summary		Final Discussions, Summary Feedback round and official farewell	
16:30	End of the Workshop			
18:30	Evening Program (For those, traveling back on Wednesday)		Visiting the City Center and the Christmas market afterwards (open end)	

Map of the Workshop Location

M: Mensa (for Lunch)
W: Workshop Location. Address:
Adolf-Reichwein-Straße 2, Building HB, Room 0204 (in the basement)
B: Bus Stop *(Weidenau Adolf-Reichwein-Str.)*