

8TH GEORGIAN - GERMAN SCHOOL AND WORKSHOP IN BASIC SCIENCE (GGSWBS'18)

SCIENCE AT MULTIDISCIPLINARY SMART | LABS IN GEORGIA

August 20 - 25, 2018 · Tbilisi, Georgia





AUGUST 20, MONDAY WORKSHOP, TSU

WORKSHOP PROGRAM

TOPICS

- Symmetries in Subatomic Physics (T- and CP-Violations)
- Electric Dipole Moment (EDM)
 Searches (e.g. JEDI project)
- Standard Model and Beyond (Theory, HEP Experiments)
- Atmospheric Chemistry and Climate Research
- · Numerical Schemes and Modeling
- · Nuclear Medicine and Chemistry
- Medical Imaging and Biomarkers
- Complementary Imaging Methods: Hybrid MRI-PET
- Engineering Sciences (Simulation, Instrumentation, Electronics)
- Satellite topical lecturing/training courses for students

VENUE AND GENERAL SCHEDULE OF THE MEETING:

Sun, August 19

Arrival (early morning); Tbilisi Tour (14:00 – 18:30)

Registration & Welcome Reception (19:30 – 22:00) (MUZA, 'Kus Tba' road, Tbilisi)

Mon, Tue (August 20, 21)

Ivane Javakhishvili Tbilisi State University (TSU) (Chavchavadze ave. 1, Main building)

Wed, August 22

Social program (9:30 - 21:00) (Excursion: Day trip to Khaketi)

Thu, Fri (August 23, 24)

(TSU, AUG) (Chavchavadze ave. 1; Agmashenebeli alley 240)

Sat, August 25

Departure (after midnight)

EXISTING AND FUTURE COOPERATION

auditorium 107

PLENARY OPENING SESSION

WELCOME/OPENING ADDRESS

10:00 Giorgi Sharvashidze, Rector of TSU

Representative of Ministry of Education and Science

Representative of German Embassy in Georgia

Manana Mikaberidze, Director General of SRNSF

Hans Ströher, Director of IKP/FZJ: "Scope of the Workshop"

PLENARY SESSION 1

CONVENER: ALEXANDER TSISKARIDZE

11:00 Hans Ströher (FZJ/IKP), Frontiers of Fundamental Physics

11:30 Jon Shah (FZJ/INM), Medical Imaging (Hybrid MRI-PET)

12:00 Coffee break (conference photo)

12:30 Andreas Wahner (FZJ), Atmospheric Chemistry (common project with TSU)

13:00 Bernd Neumaier (FZJ), Radiotracers for PET App's. (perspectives for collabor.)

13:30 Lunch break

PLENARY SESSION 2

CONVENER: HANS STRÖHER

15:00 Akaki Rusetsky (Bonn), Hadron Physics in the Era of Big Computers

15:30 Gergely G. Barnafoldi (Budapest), Theoretical and Experimental Investigations of the Strongly Interacting Matter

16:00 Sabine Dues (FZJ/ICS), Structural Biochemistry projects (overview of ICS-6)

16:30 Coffee break

AWARDING CEREMONY

CONVENER: GIORGI SHARVASHIDZE

17:00 Public Lecture

Prof. Ulf-G. Meißner (Bonn/FZJ): Life on Earth - an Accident?

17:40 Discussion, Conversation and Get-Together

(reception/photo session/interviews)

19:30 SOCIAL PROGRAM

TSU Welcome dinner "Shadow of Metekhi" restaurant

EXISTING AND FUTURE COOPERATION

auditorium	າ 107

PLENARY SESSION 3

CONVENER: ANDREAS WAHNER

- 9:00 Astrid Kiendler-Scharr (FZJ/IEK), Climate Change: current knowledge
- 9:30 Hendrik Elbern (FZJ/IEK), Atmospheric Models with Data
- 10:00 Ghaleb Natour (FZJ/ZEA-1), Technology for Excellent Science
- 10:30 Stefan van Waasen (FZJ/ZEA-2), Advanced Computing

11:00 Coffee break

- 11:30 Thomas Kress (RWTH Aachen), High Energy Physics experiments at CERN
- 12:00 Harald Glueckler (FZJ/ZEA), Spectrometer and detector construction, design and fabrication
- 12:30 Jörg Mauler (FZJ/INM-4), MR Spectroscopy
- 13:00 David Arutinov (FZJ/ZEA-2), Development of a new PET-MRI prototype

13:30 Lunch break

	ENCE AT ART EDM_LAB		ENCE AT ART ATMO_SIM LAB		ENCE AT SMART DICAL_LAB (MRI + BIOMED)
	auditorium 06		auditorium 107		auditorium 101
	PARALLEL SESSION 1 CONVENER: MIKHEIL NIORADZE		PARALLEL SESSION 2 CONVENER: BEZHAN CHANKVETADZE		PARALLEL SESSION 3 CONVENER: J. SHAH AND B. NEUMAIER
14:30	Jörg Pretz (FZJ/IKP), JEDI project at COSY/Jülich	14:30	Giorgi Jibuti (TSU), Project overview: smart platform- sensors and drones	14:30	Ezequiel Farrher (FZJ/INM-4), Quantitative MRI (Methods)
15:00	Zurab Berezhiani (L'Aquila, Italy), Puzzling neutron: window to new physics?	15:00	Ramaz Botchorishvili (TSU), Project overview: numerical model- ling, measur.'s and machine learning	15:00	Elene lordanishvili (FZJ/INM-4/GTU) , Quantitative MRI (Application)
15:30	Zara Bagdasarian (FZJ/IKP), Neutrino hunters around the world	15:30	Marine Arabidze (NEA, Georgia), Air quality monitoring system in Georgia: challenges and perspectives	15:30	Jon Shah (FZJ/INM-4), MR-PET
16:00	Coffee break				
16:30	Vakhtang Kartvelishvili (Lancaster), Quarkonium spectroscopy in ATLAS	16:30	Hanno Scharr (FZJ/IBG-2), Computer vision crash course (part 1)	16:30	Mikheil Kelenjeridze (FZJ/INM-4/GTU), Develop. of an MRI antenna array for MR-PET imaging
17:00	Jambul Gegelia (FZJ/TSU), Eff. field theory and derivation of Salam-Weinberg model			17:00	Swen Humpert (FZJ/INM-5), ¹⁸ F-labeled peptides for diagnosis of Alzeimer's disease
				18:00	Revaz Shanidze (TSU), Nuclear Medicine Physics in TSU

19:30 **DINNER**

at Hotel "Tbilisi Orion"

ONGOING PROJECTS AT SMART EDM_LAB		ONGOING PROJECTS AT SMART ATMO_SIM LAB			WORK PLANED FOR SMART MEDICAL_LAB'S	
	II build., EDM_Lab, #047		auditorium 06			auditorium 101
	PARALLEL SESSION 4: CONVENER: HANS STRÖHER		PARALLEL SESS CONVENER: ASTRID KIENDLE			PARALLEL SESSION 8: CONVENER: ALEXANDER TSISKARIDZE
9:30	Irakli Keshelashvili (FZJ/IKP), Work in Juelich (det. & target) (overview)	9:30	Robert Wegener (F Diurnal and annua Oxides	FZJ/IEK), Il cycle of Nitrogen	9:30	Jon Shah (FZJ/INM-4), SMART lab in frame of National Imaging Facility (NIF)
10:00	David Mchedlishvili (TSU), Work in Tbilisi (overview)	10:05		clock: a tool to dis- mixing and reaction	10:00	Bernd Neumaier (FZJ/INM-5), SMART lab in cooperation with TSU?
10:30	Fabian Müller (FZJ/IKP), Polarimetry for srEDM measurements	10:40	:40 Tako Janelidze (FZJ/IEK), Novel adjoint advection schemes for Atmo Chemistry		10:20	Tamar Khechiashvili (FZJ/INM-4/GTU), My experience in Juelich as a PhD
					10:40	Ana Gogishvili (FZJ/INM-4/GTU), My experience in Juelich as a Master student
11:00	Coffee break					
11:30	David Arutinov (FZJ/ZEA-2), 3D chip (introductory lecture)	11:30	Ketevan Kharaishv Current projects at		11:30	Discussions/Students presentations
12:00	Dito Shergelashvili (TSU, PhD), Polarimeter electronics and data readout	11:55	Ana Dolidze (TSU), Studying advection schemes of EURAD-IM model			
12:20	Otari Javakhishvili (AUG, Master), Power supply developments for polarimeter	12:20	20 Robert Wegener (FZJ/IEK), Introduction to atmospheric modelling (lecture)			
12:40	Giorgi Kvantrishvili (TSU, Master), Axion search: plans at COSY					
13:00	Lunch break					
14:30	II build., EDM_Lab, #047	14:30	Il build., comp. class #344)	auditorium 06 PARALLEL SESSION 7.2	14:30	auditorium 101
	PARALLEL SESSION 5		SESSION 7.1	CONVENER:		
	CONVENER: HANS STRÖHER		CONVENER: GIORGI JIBUTI	RAMAZ BOT- CHORISHVILII		PARALLEL SESSION 9 CONVENER: REVAZ SHANIDZE
	Practical for students: Detlev Gotta, Gogi Macharashvili, Irakli Keshelashvili, Detector Physics and Simulations in		Practical for students: Robert Wegener, Atmospheric	Lectures for students: Hanno Scharr, Computer vision		Practical for students: Jon Shah, Bernd Neumaier, Lecturing & students presentations
18:00	Experimental Particle Physics	18:00	modeling	crash course (part 2)	18:00	

19:30 SOCIAL PROGRAM

(Banquet of the Workshop, "Kopala" restaurant)

PROGRAM FOR AGRICULTURAL UNIVERSITY OF GEORGIA (AUG) (SMART | ENGINEERING_LAB)

AUG, Engineering department

WELCOME

- 10:30 Welcome meeting of guests from FZJ with the managemeent of AUG
 - Signing of the Internship Agreemnet/Declaration between AUG-ZEA (-1,-2)
- 10:00 Tour in the Kakha Bendukidze campus of AUG/FUT: Visiting laboratories, research facilities, library and museum

PARALLEL SESSION 10

CONVENER: ZAZA METREVELI

Students presentations: Department of Mechanical Engineering (15+5')

- 12:00 Giorgi Gvasalia, Beqa Sanodze, Turbo Jet Engine
- 12:20 Davit Togonidze, Mirian Bejitadze, Robotic Arm
- 12:40 Luka Janjghava, Dudu Mamatsashvili, Hydraulic Excavator

13:00 Lunch break (at the culinary academy of AUG)

Students presentations: Department of Electrical and Computer Engineering (10+5')

- 14:30 Nino Anasova, Portative low frequency spec. analyzer for biomedical purposes
- 14:45 Avtandil Lomidze, Psycho emocional cond. estim. system for operators in industry
- 15:00 Aleksandre Kalandadze, Intellectual device for the fast charging of electric cars, adopted for the conditions in Georgia
- 15:15 Rati Chkhetia, Automated device for animal monitoring in national parks

Students presentations: Department of Chemistry (10+5')

- 15:30 Nodar Dumbadze, Synthesis of novel ion-conducting mat's for fuel cell applicator
- 15:45 Tamar Khatisashvili, Elene Gabodze, *Green Chemistry*

Students presentations: Department of Biology

- 16:00 Nato Kuljanishvili, In vitro testing of in silico designed cationic antimicrobial peptides
- 16:20 Tamar Khatisashvili, Elene Gabodze, Green Chemistry

18:00 Arrival at Hotel

19:30 SOCIAL PROGRAM

(Banquet of the Workshop, "Kopala" restaurant)

9:30 DEPARTURE TO AUG

Participants:

- School of Engineering and Technology
- · Department of Chemistry
- · Department of Biology
- FZJ guests:
- Ghaleb Natour
- Harald Glueckler
- Stefan van Waasen
- Sabine Dues
- · LONZA Cologne GmbH:
- Claus-Dietmar Pein (director of the company)

AUGUST 24, FRIDAY SCHOOL PART AT TSU

STUDENTS SESSION 1 CONVENER: RAMAZ BOTCHORISHVILI 09:30 Introductory information "How to prepare presentations?" Hans Ströher 09:40 Giga Aptsiarui, Salome Shekiladze, Processing measurements using deep learning 09:50 Salome Kakhaia, Mariam Razmadze, Shape parameter for radial basis functions 10:00 Tamaz Sepiashvili, Mari Jananashvili, Coupled Horn-Shunk & Lucas-Kannade for images 10:10 Giorgi Svanadze, David Jokhadze, Vehicle type, quantity and velocity from video 10:20 Pavle Tsotskolauri, Reaction time & operation accuracy measurement and training device 10:30 Demetre Dzmanashvili: Comparing diffusion models for image processing 11:00 Coffee break STUDENTS SESSION 1 CONVENER: BEZHAN CHANKVETADZE 11:30 Tamar Khatiashvili, Nitrous oxides pollution in Tbilisi 11:50 Salome Pantsulaia, Methane pollutionm in Tbilisi 11:50 Salome Pantsulaia, Methane pollutionm in Tbilisi 12:00 Nana Khundadze, Contamination gradients for air pollutants in space 12:10 Mariam Maisuradze, Contamination gradients for air pollutants in time 12:20 Natia Porchkhidze (ISU), GCR and climate change 13:00 Lunch break STUDENTS SESSION 3 CONVENER: DAVID MCHEDLISHVILI 14:15 Tamar Zakareishvili, Studies of ATLAS hadranic colarimeter response 14:25 Gogita Papalashvili, Neutrino research at intermediate energies with KM3NeT/ORCA 14:35 Revaz Beradze, Physics beyond SM and precision tests of the neutron beta-decay 14:45 Alexandre Gurchumella, Physical applications of the non-compact G2 14:55 Mariam Chitishvili, Study of metastable vacuum decay with gravity 15:05 Gogs Suknidze, Axion search experiments 15:15 Vano Zurabashvili, Landau quantization in quantum mechanics 15:25 Sopiko Kurdadze (ISU), Rock lizards-Gene flow and hybridization within species of "mixtra" STUDENTS SESSION 4 CONVENER: KETEVAN KOTETISHVILI 15:35 Tatis Gonashvili (GTU), Madical imaging technologies 15:45 Natia Beriashvili (GTU), Madical imaging technologies 15:45 Natia Beriashvili (GTU), Madical imaging technologies 15:45 Coffee break 17:00 Summarizing		
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