Program

Monday, November 12, 2018

09:00 – 16:00	Registration	
12:30	*LUNCH / Informal get together*	
14:00 – 14:10	Scientific organizers	**Opening and welcome**

CHAIR: Alexej Semenov Sr

14:10 – 15:10	Gregory Goltsman	**From hot-electron phenomena in disordered superconducting film to superconducting single-photon detectors**
15:10 – 15:40	Eric Bonvin	**Near-field imaging of single-photon counting superconducting nanowires**
15:40 – 16:10	Yuliya Korneeva	**From single-photon detection in micrometer-scale bridges to practical detectors**
16:10 – 16:30	COFFEE BREAK	

CHAIR: Sae Woo Nam

16:30 – 17:30	Karl Berggren	**Using the plasmonic character of superconducting nanowire microwave transmission lines**
17:30 – 18:10	Alexander Semenov Jr	**Can one use low-volume KID or SSPD to detect single 2Δ photon?**
18:30	DINNER	

Program

Tuesday, November 13, 2018

08:00	BREAKFAST	
CHAIR: Mariia Sidorova		
09:00 – 10:00	Denis Vodolazov	**Minimal timing jitter in SNSPD**
10:00 – 10:30	Artem Kuzmin	**Timing jitter of RF-SNSPDs with different resonance frequencies**
10:30 – 11:00	*COFFEE BREAK*	
CHAIR: Alexander Kozorezov		
11:00 – 11:40	Mariia Sidorova	**Timing jitter in photon detection by straight superconducting nanowires: Effect of magnetic field**
11:40 – 12:20	Xiaolong Hu	**Device timing jitter of superconducting nanowire single-photon detectors**
12:20	**Conference Photo** (in the foyer of the lecture hall)	
12:30	*LUNCH*	
CHAIR: Xiaolong Hu		
14:00 – 14:30	Boris Korzh	**Experimental methods for studies of intrinsic jitter and latency in SNSPDs**
14:30 – 15:10	Alexander Kozorezov	**Intrinsic timing jitter and latency in superconducting single photon nanowire detectors**
15:10 – 15:40	Jason Allmaras	**Modeling of intrinsic detection latency and timing jitter in SNSPDs**
15:40 – 16:10	*COFFEE BREAK*	
CHAIR: Denis Vodolazov		
16:10 – 16:40	Misael Caloz	**Intrinsically-limited timing jitter in MoSi SNSPDs**
16:40 – 17:40	**Discussion**	
18:00	*DINNER*	

Program

Wednesday, November 14, 2018

08:00	*BREAKFAST*	
CHAIR: Alexander Semenov Jr		
09:00 -09:40	Adriana Lita	**Materials development for high efficiency superconducting nanowires single photon detectors**
09:40 – 10:20	Cheryl Feuillet-Palma	**Towards high critical temperature superconducting single photon detector**
10:20 – 10:50	Narendra Acharya	**MgB_2 nanowire photon detectors with a 70ps response time**
10:50 – 11:20	*COFFEE BREAK*	
11:20 – 12:30	**Poster session**	
12:30	*LUNCH*	
CHAIR: Gregory Goltsman		
14:00 – 15:00	Alexej Semenov Sr	**Statistics of dark and photon counts in current-carrying superconducting nanowires**
15:00 – 16:00	**Discussion**	
16:00 – 16:30	COFFEE BREAK	
CHAIR: Cheryl Feuillet-Palma		
16:30 – 17:10	Claire Autebert	**Performance characterization and applications of MoSi SNSPDs**
17:10 – 17:50	Iman Esmaeil Zadeh	**Superconducting single-photon detectors, a game changing technology, potentials and challenges**
17:50 – 18:30	Jonathan Finley	**Quantum detectors and sources of semiconductors**
18:45	*DINNER*	

Program

Thursday, November 15, 2018

08:00	*BREAKFAST*	
CHAIR: Shigehito Miki		
09:00 – 10:00	Robert Hadfield	**Superconducting nanowire single-photon detectors: Current and emerging applications**
10:00 – 10:40	Lixing You	**Superconducting nanowire single photon detectors for quantum information**
10:40 – 11:00	*COFFEE BREAK*	
CHAIR: Lixing You		
11:00 – 11:40	Emma Wollman	**Superconducting nanowire single photon detectors for deep-space optical communication**
11:40 – 12:20	Labao Zhang	**Superconducting nanowire-array detectors for satellite laser ranging technology**
12:30	*LUNCH*	

Program

Thursday, November 15, 2018

CHAIR: Labao Zhang

14:00 – 15:00	Shigehito Miki	**Research activities of superconducting nanowire single photon detectors in NICT**
15:00 – 15:30	Mack Johnson	**Addressing practicalities in a racetrack superconducting nanowire single-photon detector**
15:30 – 16:00	Menno Poot	**Linear optics quantum circuits with optomechanical phase shifters and integrated SSPDs**
16:00 – 16:30	COFFEE BREAK	

CHAIR: Robert Hadfield

16:30 – 17:10	Wolfram Pernice	**Waveguide integrated single photon detectors**
17:10 – 18:10	**Discussion**	
18:30	*HERAEUS DINNER* *(cold & warm buffet, free beverages)*	

Program

Friday, November 16, 2018

08:00	*BREAKFAST*	
CHAIR: Adriana Lita		
09:00 – 09:40	Francesco Mattioli	**From PNRD based on superconducting nanowires to pulse position readout of SSPD arrays**
09:40 – 10:10	Di Zhu	**Delay-line-multiplexed single-photon detector array for photonic integrated circuits**
10:10 – 10:40	Xintong Hou	**Broadband microfiber-coupled superconducting nanowire single-photon detector for visible and near-infrared light**
10:40 – 11:00	*COFFEE BREAK*	
CHAIR: Karl Berggren		
11:00 – 12:00	Sae Woo Nam	**Superconducting nanowires: Progress and promise**
12:00 – 12:15	**Wrap-up discussion**	
12:15	Scientific organizers	**Poster awards and closing remarks**
12:30	*LUNCH*	

End of the seminar *and FAREWELL COFFEE* ***/ Departure***

Please note that there will be ***no*** *dinner at the Physikzentrum on Friday evening for participants leaving the next morning.*