

OMNIDAV 2018 Workshop PROGRAM

Workshop venue: Arthurs Aghveran Resort: <http://arthurs-hotel.am/en>

Friday 14 September 2018

20:00	Departure from Yerevan downtown to Aghveran
21:00 - 21:30	Arrival to Workshop Venue; Check in

Saturday 15 September 2018

9:00 - 10:00	Breakfast			
10:00 - 10:15	Registration			
10:15 - 10:30	Workshop Opening (welcome speeches by Co-Chairs)			
10:30 - 12:30	Long Talk Session 1 <i>Chairman D. Budker</i>	10:30-11:10	D. Sarkisyan	Nanometric thin cells filled with alkali metals: Applications in the atomic spectroscopy
		11:10-11:50	H. Zheng	Magnetometry with NV centers in diamond
		11:50-12:30	A. Papoyan	Overview of mirrorless degenerate lasing in atomic systems
12:30 - 13:30	Lunch Break			
13:30 - 16:00	<i>parallel: ADM Tutorial 1</i>	13:30-14:15	S. Rochester	The underlying physics of ADM: Light-Matter interaction
		14:15-15:00		Getting to know the ADM package
		15:00-16:00		One-on-one
<i>parallel: OMNIDAV project discussion 1 (outdoor)</i>				
16:00 - 16:30	Coffee Break & Poster Session 1			
16:30 - 17:40	Short Talk Session 1 <i>Chairman C. Leroy</i>	16:30-17:00	M. Givon	All-optical magnetometers
		17:00-17:20	A. Sargsyan	Selective reflection from Rb and Cs atomic layers with a thickness below 100 nm and applications
		17:20-17:40	G. Bao	All-optical spin locking in alkali-vapor magnetometers
17:40 - 19:30	Hill Climbing / Free Time			
19:30 - 22:00	Welcome party			

Sunday 16 September 2018

8:00 - 9:00	Breakfast			
9:00 - 11:00	Long Talk Session 2 <i>Chairman A. Papoyan</i>	9:00-9:40	F.P. Bustos	Laser magnetometry with mesospheric sodium
		9:40-10:40	A. Akulshin	Continuous-wave mirrorless lasing in sodium vapors
		10:40-11:00	S. Rochester	Is mirrorless laser in the sky possible?
11:00 - 13:00	Outdoor Events / Sightseeing			
13:00 - 14:00	Lunch Break			
14:00 - 16:00	<i>parallel: ADM Tutorial 2</i>	13:30-15:00	S. Rochester	ADM through examples
		15:00-16:00		One-on-one
		<i>parallel: OMNIDAV project discussion 1 (outdoor)</i>		
16:00 - 17:00	Coffee Break & Poster Session 2			
17:00 - 18:20	Short Talk Session 2 <i>Chairman D. Sarkisyan</i>	17:00-17:20	E. Klinger	Atomic vapor magnetometry using alkali nanocells
		17:20-17:40	H. Azizbekyan	High-speed optical three-axis vector magnetometry based on nonlinear Hanle effect in rubidium vapor
		17:40-18:00	D. Khachatryan	Change of light polarization in absence of the magnetic field
		18:00-18:20	A. Berzins	Magnetic field imaging of magnetic micro-structures in thin films using nitrogen vacancy centers in diamond crystal
18:20 - 18:30	Workshop Closing			
18:30 - 20:00	Dinner; Checking out			
20:00	Departure to Yerevan			

POSTERS

H. Zheng	Microwave-free vector magnetometry using nitrogen-vacancy centers in diamond
D. Kanta	Spin locking in unshielded, self-oscillating, atomic magnetic gradiometer
A. Fabricant	Search for biomagnetism in venus-flytrap plants
S. Shmavonyan	Evidence for degenerate mirrorless lasing in rubidium vapor: forward beam experiment
D. Sarkisyan	Magnetically induced atomic transitions of the cesium D2 line