

**Workshop on New Phenomena in Mesoscopic Systems**  
**ICTP/SAIFR - São Paulo, BR**  
**November 14-15, 2016**

Start	End	Nov. 14 - Monday		Nov. 15 - Tuesday		
8:30	9:00	<b>REGISTRATION</b>				
9:00	9:45	Amnon Aharony	Time reversal symmetry breaking, Spin-orbit interactions and spintronics	Mariana M. Odashima	Time-dependent resonant tunneling transport: partitioned and non-partitioned schemes	
9:45	10:30	Irene D'Amico	SSH-type spin chains: coherence and dynamics of topologically protected localized states	Fanyao Qu	Topological engineering of many-body quantum phenomena in novel Van der Waals crystals	
10:30	10:45	COFFEE BREAK				
10:45	11:30	Esmerindo Bernardes	k.p model for ideal wurtzite quantum wells	Tome M. Schmidt	Protected States in 2D Topological Insulators	
11:30	12:15	Carlos Egues	Persistent skyrmion lattice of non-interacting electrons in spin-orbit coupled wells	Luis Gregório G. Dias da Silva	The role of impurity symmetries in graphene electron transport	
14:15	15:00	Ora Entin-Wohlman	Enhanced performance of three-terminal thermoelectric devices	Guilherme M. Sipahi	Realistic k.p band structure and spin properties: modeling spin lasers and spin splitting in nanowires	
15:00	15:45	Gerson J. Ferreira	Spin drift and diffusion in one- and two-subband helical systems	Edson Vernek	Majorana vs Andreev bound states in quantum dot systems	
15:45	16:30	Jiyong Fu	Valley Zeeman energy in monolayer MoS2 quantum rings	COFFEE BREAK and Discussions		
16:30	18:00	COFFEE BREAK and Discussions				

More information at: <http://www.ictp-saifr.org/mesosopic>