

Preliminary list of talks
“Selected Topics in Spectral Theory”

Farit	AVKHADIEV	06.7.-23.7.
Rodrigo	BANUELOS	09.5.-22.5.
Rafael	BENGURIA	11.5.-21.5. +4w July
Virginie	BONNAILLIE-NOEL	05.7.-27.7.
Eric	CARLEN	28.6.-12.7.
	Entropy production and spectral gaps for master equations of Kac type	
Yves	COLIN-DE-VERDIERE	10.5.-17.5.
	An inverse semi-classical problem motivated by passive imaging in seismology	
Brian	DAVIES	04.7.-11.7.
Nils	DENCKER	28.6.-17.7.
Ahmad	EL SOUFI	07.5.-16.5.
	Eigenvalues of the Laplace-Beltrami operator on manifolds	
Laszlo	ERDOES	10.5.-12.5.
	Eigenvalue repulsion for Wigner random matrices	
Maria J.	ESTEBAN	July
Soeren	FOURNAIS	10.5.-24.5., 06.7.-10.7.
	Superconductivity near the second critical field	
Rupert	FRANK	July
Pedro	FREITAS	10.5.-06.6.
Leonid	FRIEDLANDER	05.6.-25.6.
Alexandre	GIROUARD	10.5.-20.5.
	Shape optimizations for Neumann and Steklov eigenvalues of planar domains.	
Evans M.	HARRELL	03.5.-31.5.
	Trace identities for spectra of Schrödinger operators and semiclassically sharp inequalities for eigenvalues	
Bernard	HELFFER	03.5.-28.7.
	On recent results and open problems on minimal partitions.	
Ira W.	HERBST	06.5.-20.5.

Lotfi	HERMI	19.5.-04.6.
	Title: A Class of New Inequalities for the Eigenvalues of the Laplacian	
	Abstract:	
	In this work, we use the Bethe sum rule and integral transform methods to prove a set of new inequalities for the eigenvalues of the fixed membrane problem. We also prove the equivalence of the Berezin-Li-Yau inequality with a classical inequality of Kac, analyze the work of A. Melas in a new light, and propose new conjectures.	
	This is joint work with Professor Evans Harrell of Georgia Tech.	
	A preprint is available at arxiv.org/abs/0712.4088	
Maria	HOFFMANN-OSTENHOF	May, June, July
Thomas	HOFFMANN-OSTENHOF	May, June, July
Mette	IVERSEN	10.5.-21.5.
Dmitry	JAKOBSON	05.5.-21.5.
	Estimates from below: spectral function, remainder in Weyl's law and resonances.	
	<i>!not on May 15!</i>	
Thomas	KAPPELER	06.7.-18.7.
Alexander	KISELEV	July
Ari	LAPTEV	May, July
Nicolas	LERNER	30.6.-12.7
Michael	LEVITIN	04.5.-27.5.
	A class of non-self-adjoint PT-symmetric periodic problems with real spectra	
Michael	LOSS	12.4.-07.5., 26.5.-01.7.
Nikolai	NADIRASHVILI	07.5.-14.5.
Bruno	NAZARET	04.5.-29.5.
	Entropies, diffusion equations and functional inequalities	
Thomas	OESTERGAARD SOERENSEN	21.4.-25.7.
Leonid	PARNOVSKI	02.7.-14.7.
Iosif	POLTEROVICH	28.4.-26.5.
	Dynamical aspects of spectral asymptotics	
Karel	PRAVDA-STAROV	01.7.-21.7.
	On semiclassical non-selfadjoint operators with double characteristics	
Oleg	SAFRONOV	12.5.-20.5.
	Absolutely continuous spectrum of Schrödinger operators with no bound states	
	<i>at the end of the workshop</i>	
Robert	SEIRINGER	05.7.-24.7.

Roman	SHTERENBERG	07.5.-31.5.
	Asymptotic expansion of the integrated density of states of two-dimensional periodic Schrödinger operator	
Heinz	SIEDENTOP	14.5.-18.5., July
	The Müller Functional: Asymptotic behaviour of the Groundstate Energy.	
Johannes	SJOESTRAND	Cancelled
Alexander	SOBOLEV	06.7.-25.7.
Michael	SOLOMYAK	02.7.-23.7
	On the spectral estimates for the discrete Schrödinger operator in dimensions > 2	
Jan Philip	SOLOVEJ	10.5.-15.5.
Tatyana	SUSLINA	05.7.-19.7.
	Homogenization of nonstationary periodic equations	
Susanna	TERRACINI	May, July
Gerald	TESCHL	May, July
	Spectral theory for perturbed Krein Laplacians in non-smooth domains	
Francoise	TRUC	10.5.-17.5.
	Confining quantum particles with a purely magnetic field	
Michiel	VAN DEN BERG	10.5.-17.5.
	Minimization of Dirichlet eigenvalues with geometric constraints, <i>in the beginning of the workshop</i>	
Timo	WEIDL	21.5.-14.6.
Maciej	ZWORSKI	July