

Complex Spectral Representation of the Hamiltonian and the Liouvillian in Nanoscience

18,19 May 2012

The University of Texas, Austin, Texas, USA

Program

(50 minute talk + 10 minute discussion)

May 18

9:25 ~ 9:30	T. Petrosky	“Opening talk”
9:30 ~ 9:55 (+10m)	R. De La Madrid	“Resonance expansions in quantum mechanics”
10:05 ~ 10:25 (+10m)	A. Weatherford	“Gravitational effects on wave dispersion in a torsional wave machine”
10:35 ~ 10:50	Break	
10:50 ~ 11:40	N. Hatano	“Exact solutions of complex eigenvalue problems of an open quantum-dot system”
11:50 ~ 13:30	Lunch	
13:30 ~ 14:20	G.Ordenez	“Absorption spectrum of quantum-dot pairs”
14:30 ~ 14:50	Break	
14:50 ~ 15:40	S. Garmon	“Bound State Influence on long-time power law decay in open systems”
15:40 ~ 16:00 (+10m)	Yingyue Boretz	“Non-exponential decaying in cascade classical radioactive decay system”

May 19
(50 minute talk + 10 minute discussion)

9:30 ~ 10:20	V. Baresegov	“The alpha-to-beta phase transition in fibrous proteins”
10:30 ~ 10:50	Break	
10:50 ~ 11:40	S. Tanaka	“Electronic Casimir effect in a quantum wire”
11:50 ~ 13:30	Lunch	
13:30 ~ 13:50 (+10m)	K.S.Na	“Deviations from exponential decay in quantum theory”
14:00 ~15:50	K. Noba	“Dynamical suppression and enhancement of instability for an unstable state by a periodic external field”
15:00 ~ 15:20	Break	
15:20 ~ 16:10	T. Petrosky	“Kirkwood gaps in the asteroid belt and the band spectrum of the Liouville operator”
16:20 ~ 16:25	N. Hatano	“Closing talk”