## YITP workshop

Resonances and non-Hermitian systems in quantum mechanics

Maskawa hall, December 11 - 13, 2012

December 11	(Tue)	
	Registration	<del></del>
Chair:	Kiyoshi Kato	
13:00-13:10	Kivoshi Kato	Opening
	Isao Shimamura	Resonances in atomic and molecular continuum processes
	Carl Bender	PT-symmetric quantum mechanics
15:10-15:40		· · · · · · · · · · · · · · · · · · ·
Chair:	Isao Shimamura	
	Rezso Lovas	Description of Unbound States and in Terms of Unbound States
	Atsushi Hosaka	Hadron resonances and their structures
December 12	(Wed)	
Chair:	Toshiyuki Takayanagi	
9:00-9:40	Akinori Igarashi	Hyperspherical calculations for Coulomb three-body systems
9:40-10:20	Toru Morishita	Time-resolved analysis and visualization of correlated motions
		of electrons in multiply excited states of atoms
10:20-10:40	break	
Chair:	Masayasu Kamimura	
10:40-11:20	Hiroya Suno	Efimov effect and resonances in atomic and molecular physics
11:20-12:00	Toshiyuki Takayanagi	Resonances in chemical reactions: theory and experiment
12:00-13:00	Lunch	
Chair:	Naomichi Hatano	
13:00-13:40	Akinori Nishino	Many-body resonance in double quantum-dot systems
13:40-14:20	Savannah Garmon	Bound state influence on long-time non-exponential decay in open quantum systems
14:20-14:40	break	break
Chair:	Daisuke Jido	
14:40-15:20	Kanabu Nawa	Complex 2D Matrix Model and Internal Structure of Resonances
15:20-16:00	Tetsuo Hyodo	Compositeness of hadrons in field theoretical approach
16:00-18:00	Poster at K206	
	Banquet at Salon	
December 13	(Thu)	
Chair:	Carl Bender	
9:00-9:40	Tomio Petrosky	Exact form of the Complex Spectral Representation of the Liouvillian
		for Weakly Coupled One-demensional Quantum Lorentz Gas
	Naomichi Hatano	Complex eigenvalue problem of the Liouvillian of an open quantum dot system
10:20-10:40		break
Chair:	Tetsuo Hyodo	
	Hiroyuki Kamano	How parameters of light-flavor baryon resonances are extracted from experimental data
	Takayasu Sekihara	Internal structure of the resonant Lambda(1405) state in chiral dynamics
12:00-13:00		
Chair:	Hiroyuki Kamano	
	Takayuki Myo	Many-body resonances in He isotopes and those mirror nuclei
	Yuma Kikuchi	Complex Scaled Lippmann-Schwinger Equation
	Takaharu Otsuka	Low-lying continuum states of drip-line Oxygen isotopes
14:15-15:45		
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Chair:	Atsushi Hosaka	
14:45-15:20	Yasuyuki Suzuki	Resonances and responses of few-body systems
14:45-15:20 15:20-15:45	Yasuyuki Suzuki	Resonances and responses of few-body systems Astro-nuclear Reactions in the microscopic R-matrix method Scattering calculations of d+d, 3He+n and t+p with realistic nuclear interactions