

Matematica nelle Scienze Naturali e Sociali

# Workshop "Asymptotics in dynamics, geometry and PDEs; generalized Borel summation"

All lessons to be held in Aula Dini, Palazzo del Castelletto

### Date & Time Speaker & Title

Date & Time	Speaker & Title	
Monday, October 12		
09:00 - 10:00	General registration and coffee	
10:10 - 10:20	Introduction to the workshop	
10:20 - 11:20	Filippo Bracci "One resonant biholomorphisms and applications to quasi-parabolic germs"	
11:40 - 12:40	Michael Yampolsky "TbA"	
14:45 - 15:45	Adam Epstein "TbA"	
15:45 - 16:15	Coffee Break	
16:15 - 17:15	Emmanuel Paul "Moduli space of foliations and curves defined by a generic function"	
17:45 - 18:45	Reinhard Schäfke "An analytic proof of parametric resurgence for some second order linear equations"	
Tuesday, October 13		
09:00 - 10:00	<b>Gérard Iooss</b> "On the existence of quasipattern solutions of the Swift-Hohenberg equation and of the Rayleigh-Benard convection problem"	
10:00 - 10:20	Coffee Break	
10:20 - 11:20	Joel Lebowitz "Time Asymptotic Behavior of Schrodinger Equation of Model Atomic Systems with Periodic Forcings: To Ionize or Not"	
11:40 - 12:40	Saleh Tanveer "Borel Summability methods applied to PDE initial value problems"	
15:00 - 16:00	Harris J Silverstone "Kramers-Langer-modified radial JWKB equations and Borel summability"	
16:00 - 16:30	Coffee Break	
16:30 - 17:30	Carl Bender "Complex dynamical systems"	



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### Date & Time Speaker & Title

Wednesday, October 14		
09:00 - 10:00	Mitsuhiro Shishikura "Invariant sets for irrationally indifferent fixed points of holomorphic functions"	
10:00 - 10:20	Coffee Break	
10:20 - 11:20	Jean Ecalle "Four recent advances in resummation and resurgence theory"	
11:40 - 12:40	Javier Ribon "Multi-summability of unfoldings of tangent to the identity diffeomorphisms"	

### Thursday, October 15

09:00 - 10:00	Stefan Weinzierl "Feynman graphs in perturbative quantum field theory"
10:00 - 10:20	Coffee Break
10:20 - 11:20	<b>Dirk Kreimer</b> "An analysis of Dyson Schwinger equations using Hopf algebras"
11:40 - 12:40	David Broadhurst "TbA"
15:00 - 16:00	Shingo Kamimoto "On a Schrödinger operator with a merging pair of a simple pole and a simple turning point, I WKB theoretic transformation to the canonical form"
16:00 - 16:30	Coffee Break
16:30 - 17:30	<b>Tatsuya Koike</b> "On a Schrödinger operator with a merging pair of a simple pole and a simple turning point, II Computation of Voros coefficients and its consequence"
18:00 - 19:00	Carlos Matheus "Multilinear estimates for the 2D and 3D Zakharov-Rubenchik systems"



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### Date & Time Speaker & Title

#### Friday, October 16

14:30 - 15:30 **Jasmin Raissy**"Torus actions in the normalization problem"
15:30 - 15:50 Coffee Break

15:50 - 16:50 Sergei Yakovenko "TbA"