

## **"Piero Caldirola" International Centre for the promotion of Science**

and International School of Plasma Physics

## EVOLVABILITY : THE EVOLUTION OF EVOLUTION Varenna, Villa Monastero, Italy April 15 – 17, 2007

SATURDAY PM PARTICIPANTS ARRIVE		
20:00	dinner at the Hotel Royal Victoria	
21:30	Welcome party at the Hotel Royal Victoria	
SUNDAY 15 April		
9:00	Registration and Welcome coffee	
9:20	Welcome	
9:40-10:40	Marc Kirschner Facilitated Variation	
10:40-11:40	Andreas Wagner	
10.40-11.40	Exploration of Evolvability in model regularity networks	
11:40-12:40	Mike Deem	
	Spontaneous Emergence of Modularity in a Model of Evolving Proteins	
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12:40-14:00	lunch at the Hotel Villa Cipressi	
44.00 45.00		
14:00-15:00	Ralf Sommer	
15:00-16:00	Evolution of a Developmental trait: the Nematode Vulva Robert Reenan	
15.00-10.00	The Fine-Tuning of Genetics and Natural Selection	
16:00-16:30	coffee break	
16:30-17:30	Lynn Helena Caporale	
	The Evolution of Evolution: Towards a Genomic Synthesis for Evolutionary Theory	
17:30-18:10	– discussion session 1 (Simon Conway Morris)	
	optional further discussion	
20:00	Conference Dinner at the Hotel Royal Victoria	
20.00	Comprehe Dimor at the Hotel Royal Violena	

MONDAY 16 April		
8:40-9:40	Richard Lenski	
	Evolvability and robustness: experiments with bugs and bytes.	
9:40-10:40	James Shapiro	
	Natural Genetic Engineering & Non-Random Processes in Genome	Evolution
10:40-11:00	coffee break	
11:00-12:00	Uri Alon	
	Rapid Evolution of Modular Structure under Goals that vary in time in a modular fashion	
12:00–12:40	discussion session 2 (Wilson Poon)	
40.40.44.00	lunch at the Listel Ville Cinnessi	
12:40-14:00	lunch at the Hotel Villa Cipressi	

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14:00–15:00 15:00-16:00	Sarah Teichmann Evolvability and Protein Divergence in the Evolution of Homo Sapiens Frances Arnold Hidden dimensions in Protein Evolution: Stability, Mutational Robustness and Evolvability
16:00 – 16:30	coffee break
16:30 – 17:30	Amos Maritan Statics and Dynamics of Ecosystems
17:30 – 18:10	Discussion session 3 (Ard Louis and Jonathan Doye) optional further discussion
19:00 21:30	dinner at the Hotel Royal Victoria choir concert at Villa Monastero

TUESDAY 17 April	
8:40 - 9:40	Martin Nowak
9:40 - 10:40	Cooperation and evolvability Christopher Adami A Mechanism for Drastically Fluctuating Genomic Evolution: From Digitals to the Cambrian explosion and Back
10:40-11:00	coffee break
11:00 - 12:00	<b>Nigel Goldenfeld</b> The Evolution of the Genetic Code
12:00 - 12:40	– discussion session 4 – ( <b>L. Mahadevan</b> )
12:40-14:00	lunch at the Hotel Villa Cipressi
14:00-15:00	Günter Wagner How does Selection affect Evolvability ?
15:00 – 15:40	summary discussion session – (William Wimsatt)
15:40	final coffee break
19:00	dinner at the Hotel Royal Victoria
21:15	Popular Conference at the 'Teatro della Società' in Lecco – S. Conway Morris and F.Facchini