



Istituto dei Sistemi Complessi



*Ministero degli Affari Esteri
e della Cooperazione Internazionale*

Convegno 2017



Consiglio Nazionale delle Ricerche

INVITED SPEAKERS:

- R. Livi
- C. Macchiavello
- L. Pietronero
- F. Sciarrino
- F. Sciortino
- A. Vulpiani

WEB:

www.isc.cnr.it/events/isc-meeting-2017/

INFO:

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Roma, 16-17 Ottobre 2017
CNR-Sede Centrale
Aula Bisogno Piazzale Aldo Moro 7

Soft Matter

10:00-10:20	Introduction by the Director	
10.20-10.40	“In silico” synthesis of microgel particles	E. Zaccarelli
10.40-11.00	Experimental behaviour of soft colloids: responsive microgels	B. Ruzicka
11.00-11.40	Keynote talk Can colloids teach us something on the anomalous thermodynamic behaviour of supercooled water?	F. Sciortino
11.40-12.00	Flexible colloidal structures in active baths	L. Angelani
12.00-12.20	Glassy dynamics beyond mode coupling theory	T. Rizzo
12.20-14.00	LUNCH	

Classical Complexity

(non-linearity, networks, economics...)

14.00-14.40	Keynote Noise driven neuromorphic tuned amplifier	R. Livi
14.40-15.00	Thermal convection in experiments with granular gases	A. Puglisi
15.00-15.20	Dynamical scaling in natural swarms	A. Cavagna
15.20-15.45	COFFEE BREAK	
15.45-16.25	Keynote Big Data or Models? The lesson from weather forecasting	A. Vulpiani
16.25-16.45	Scanning microscopy of plasmonic microstructures for biomedicine	B. Tiribilli
16.45-17.05	Slow dynamics of the Discrete Nonlinear Schrödinger Equation	P. Politi
17.05-17.25	Statistical physics methods for networks of interactions	A. Gabrielli
17.25-18.05	Keynote Economics complexity: The Fitness Model	L. Pietronero
20.00	SOCIAL DINNER	

Quantum Complexity

09.30-10.15	Keynote The quest for quantum supremacy	F. Sciarrino
10.15-10.40	The soft side of hard matter	J. Lorenzana
10.40-11.05	Complex Photonics: the replica symmetry breaking of light, and related topics	C. Conti
11.05-11.30	COFFEE BREAK	
11.30-12.15	Keynote Secure communications with quantum mechanics	C. Macchiavello
12.15-12.40	Complex active optical networks	G. Giacomelli
12.40-13.05	When quantum is big: dealing with quantum environments	P. Verrucchi
13.05	END OF THE MEETING – LUNCH	

Incontri con gli studenti

[Dipartimento di Fisica La Sapienza](#)