

## Associate Professors

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**GIORGIO CINACCHI** Associate Professor  
[Statistical Physics of Complex Liquids and Biophysics](#)

Work Module 5, Office 512, 5th floor.

### Biographical Info

2011-present: Ramon y Cajal research fellowship.

2008-2010: European Union Marie Curie individual research fellowship, the hosting institution being the University of Bristol, UK.

2008: "Vincenzo Caglioti" Prize from the Accademia dei Lincei, Rome, Italy.

2004: PhD degree from the SNS.

Undergraduate and postgraduate scholarships at the Scuola Normale Superiore (SNS) di Pisa.

### Research Interests

Theory and numerical simulation of soft matter systems. Current interest is in:

Phase behavior and properties of model colloidal particles having a concave shape: lens- and bowl-like particles and helical particles.

In silico design of semi-conductive columnar discotic liquid crystals.

### Relevant/Recent Publications

Hima Bindu Kolli, Elisa Frezza, Giorgio Cinacchi, Alberta Ferrarini, Achille Giacometti, Toby Scott Hudson, From rods to helices: evidence of a screw-like nematic phase, *Journal of Chemical Physics Communication*, in press (2014). [\[URL\]](#)

Giorgio Cinacchi, Phase behavior of hard spherical caps, *Journal of Chemical Physics*, vol. 139, 124908 (2013). [\[URL\]](#)

Giorgio Cinacchi, Jeroen S. van Duijneveldt, Phase behavior of contact lens like particles: entropy driven competition between isotropic-nematic separation and clustering, *Journal of Physical Chemistry Letters* vol. 1, 787-791 (2010). [\[URL\]](#)

Giorgio Cinacchi, Luca De Gaetani, Two step mechanism of rotational relaxation in layered phases of rods: accelerating effect of the addition of spheres, Physical Review Letters vol. 103, 257801 (2009). [\[URL\]](#)

Giorgio Celebre, Giorgio Cinacchi, Giuseppina De Luca, Solvent smectic order parameters from solute nematic order parameters, Journal of Chemical Physics, vol. 129, 094509 (2008). [\[URL\]](#)

Giorgio Cinacchi, Giovanni La Penna, Angelo Perico, Anisotropic internucleosome interactions and geometrical constraints in the organization of chromatin, Macromolecules, vol. 40, 9603-9613 (2007). [\[URL\]](#)

Giorgio Cinacchi, Valentina Domenici, Orientational ordering of a banana-shaped solute molecule in a nematic calamitic solvent by 2H-NMR spectroscopy: an indication of glasslike behavior, Physical Review E, vol. 74, 030701(R) (2006). [\[URL\]](#)

Giorgio Cinacchi, Luis Mederos, Enrique Velasco, Liquid-Crystal phase diagrams of binary mixtures of hard spherocylinders, Journal of Chemical Physics, vol. 121, 3854-3863 (2004). [\[URL\]](#)

Giorgio Cinacchi, Renato Colle, Alessandro Tani, Atomistic molecular dynamics simulation of hexakis- pentyloxy- triphenylene: structure and translational dynamics of its columnar state, Journal of Physical Chemistry B, vol. 108, 7969-7977 (2004). [\[URL\]](#)

Giorgio Cinacchi, Friederike Schmid, Density functional for anisotropic fluids, Journal of Physics:Condensed Matter, vol. 14, 12223-12234 (2002). [\[URL\]](#)

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