复旦大学物理系物质科学报告

Physics Department Colloquium

Understanding the complex organization and interaction of living soft matter

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Abstract: In this talk, I first present a simple review of self-organization and interaction behaviors in living soft matter, and then examine in detail the physical mechanism of structural organization and dynamic behaviors in living soft matter on the basis of some examples of our recent works on the cell – nanomaterials interactions and nonequilibrium self-organization in cellular cytoskeleton and self-propelled particles.

1. Kai Yang and Yu-qiang Ma, Nature Nanotechnology 5, 579 (2010).
2. Xia-qing Shi and Yu-qiang Ma, Proc. Natl. Acad. Sci. 107, 11709 (2010).
3. Hong-ming Ding, Wen-de Tian and Yu-qiang Ma, ACS Nano 6, 1230 (2012).
4. Wen-de Tian and Yu-qiang Ma, Chem Soc Rev 42, 705 (2013) (invited review).
5. Xia-qing Shi and Yu-qiang Ma, Nature Communications 4, 3013 (2013).
6. Hong-ming Ding and Yu-qiang Ma, Small 11, 1055(2015)(invited review).

Time：2:00pm, Tuesday, June 30, 2015

Location：Physics Building, Room 221B

(Cookies and coffee will be served from 1:30 pm)