



THE INSTITUTE FOR
MOLECULAR
ENGINEERING

Seminar Series

SPEAKER

Margaret Gardel

IME Fellow, Associate Professor, Dept. of Physics



Building Contractile Matter

The cytoskeleton of living cells is a quintessential example of active matter, in which internal molecular processes transduce chemical energy into local stresses that drive structural rearrangements and dominate its material response. The physical behaviors of such “living matter” engender cells with the ability to move, divide and build multi-cellular tissue. Across diverse physiological processes, an important class of cytoskeletal materials includes those that generate contractile forces. By reconstituting contractile matter from purified protein constituents, our lab aims to elucidate the physical principles of these active materials so that we can further engineer and modify their behaviors.

Thursday, April 17th

10 AM GCIS W301

<http://ime.uchicago.edu/>

