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Abstract for an Invited Paper for the OSS19 Meeting of the American Physical Society

Updates in Microtubule Mechanics

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My research involves working on problems that lie at the intersections of physics, mathematics, engineering, biology and chemistry. I am a biophysicist that uses the quantitative skills and methods I learned in physics to gain a better understand how living cells do what they do. Since this problem is very complicated and quite broad, I have focused my attention on the cytoskeletal filaments called microtubules. Understanding the mechanics and dynamics properties of microtubules in addition to how microtubule associated proteins work to fine tune these properties within cells, is the area where my research interests lie.