

1010-92-82

**Erik Miklos Boczko\*** ([erik.boczko@vanderbilt.edu](mailto:erik.boczko@vanderbilt.edu)), Department of biomedical informatics, 406 eskind biomedical library, 2209 garland ave, nashville, TN 37232, and **Erik M boczko**.

*Molecular Seismology: A nanoscale assay to capture time and space resolved biopolymer interactions.* Preliminary report.

In recent years there has been an explosion of single molecule studies. These studies are revolutionizing quantitative biology. We present a novel assay technique that is based on the solid foundations of wave propagation in elastic media and well studied inverse problems in PDE. We have conceived of a nanoscale device that can realize this theory. (Received August 20, 2005)