

# Diffusion In Polymer Networks of Hydrogel

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In this work we consider the diffusion behavior of a simple spherical tracer particle in polymer networks of hydrogels. There have been hints obtained via Fluorescence Correlation Spectroscopy on FCS tracer particles in a hydrogel. We study, by means of MD simulation, the diffusion properties of a tracer particle in a confined geometry of a polymer network. We investigate the diffusion property of a single tracer particle interacting with the polymer via simple Lennard-Jones potential.