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Single Particle Jumps in Sheared SiO₂¹ SEAN MCMAHON, KATHARINA VOLLMAYR-LEE, Bucknell University, JONATHAN COOK-MEYER, Haverford College, JUERGEN HORBACH, Heinrich-Heine-University Duesseldorf, Germany — We study the dynamics of a sheared glass via molecular dynamics simulations. Using the BKS potential we simulate the strong glass former SiO₂. The system is initially well equilibrated at a high temperature, then quenched to a temperature below the glass transition, and, after a waiting time at the desired low temperature, sheared with constant strain rate. We present preliminary results of an analysis of single particle trajectories of the sheared glass.

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