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Classical MD Simulation Study of Silica Glass CHAO CAO, KRISHNA MURALIDHARAN, GRACE GREENLEE, HAIPING CHENG, University of Florida — The structure and mechanical properties of silica glass is studied using classical MD simulation, which uses BKS potential. Different behaviors for bulk glass and nano-wire glass were observed, and the underlying mechanism was analyzed. This study shows that 2-membered rings play an important role in the mechanical behavior of silica glass.

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