

Computer simulations of Glass forming systems

Glass is a solid material which appears to have the microscopic structure of a liquid. The details of how a material with the microscopic structure of a liquid is able to macroscopically appear to be a solid remain poorly understood. In this project simple models will be used for the interaction between atoms. We will then simulate a collection of these model atoms on the computer. At higher temperatures the simulations are able to produce an ordinary liquid but at lower temperatures a glass may be formed. We will investigate the microscopic details of how this material, with a liquid like structure, appears macroscopically to be a solid.

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