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Correlation Functions and Glass Structure Y. CHERGUI, N. NEHAOUA, B. TELGHEMTI, S. GUEMID, N.E. DERADDJI, H. BELKHIR, D.E. MEKKI, Physics Department, LESIMS Laboratory, Badji Mokhtar University, 23000 Annaba, Algeria — This work presents the use of molecular dynamics (MD) and the code of Dl Poly, in order to study the structure of fluoride glass after melting and quenching. We are realized the processing phase liquid-phase, simulating rapid quenching at different speeds to see the effect of quenching rate on the operation of the devitrification. This technique of simulation has become a powerful tool for investigating the microscopic behaviour of matter as well as for calculating macroscopic observable quantities. As basic results, we calculated the interatomic distance, angles and statistics, which help us to know the geometric form and the structure of PbF2. These results are in experimental agreement to those reported in literature.

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