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Static and Dynamical Properties of Polar Fluids GIRIJA S. DUBEY, CUNY/York, NY11451 — Molecular dynamics simulations are reported for a system whose pair potential can be separated as the sum of a Lennard-Jones term and a dipole-dipole interaction. The simulations were done for a chosen value of electric dipole moment and for a set of temperatures. Chain formation is observed when the potential is dipolar as well as when both terms are included. However. our simulation shows some differences in the pattern formation of the chains.

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