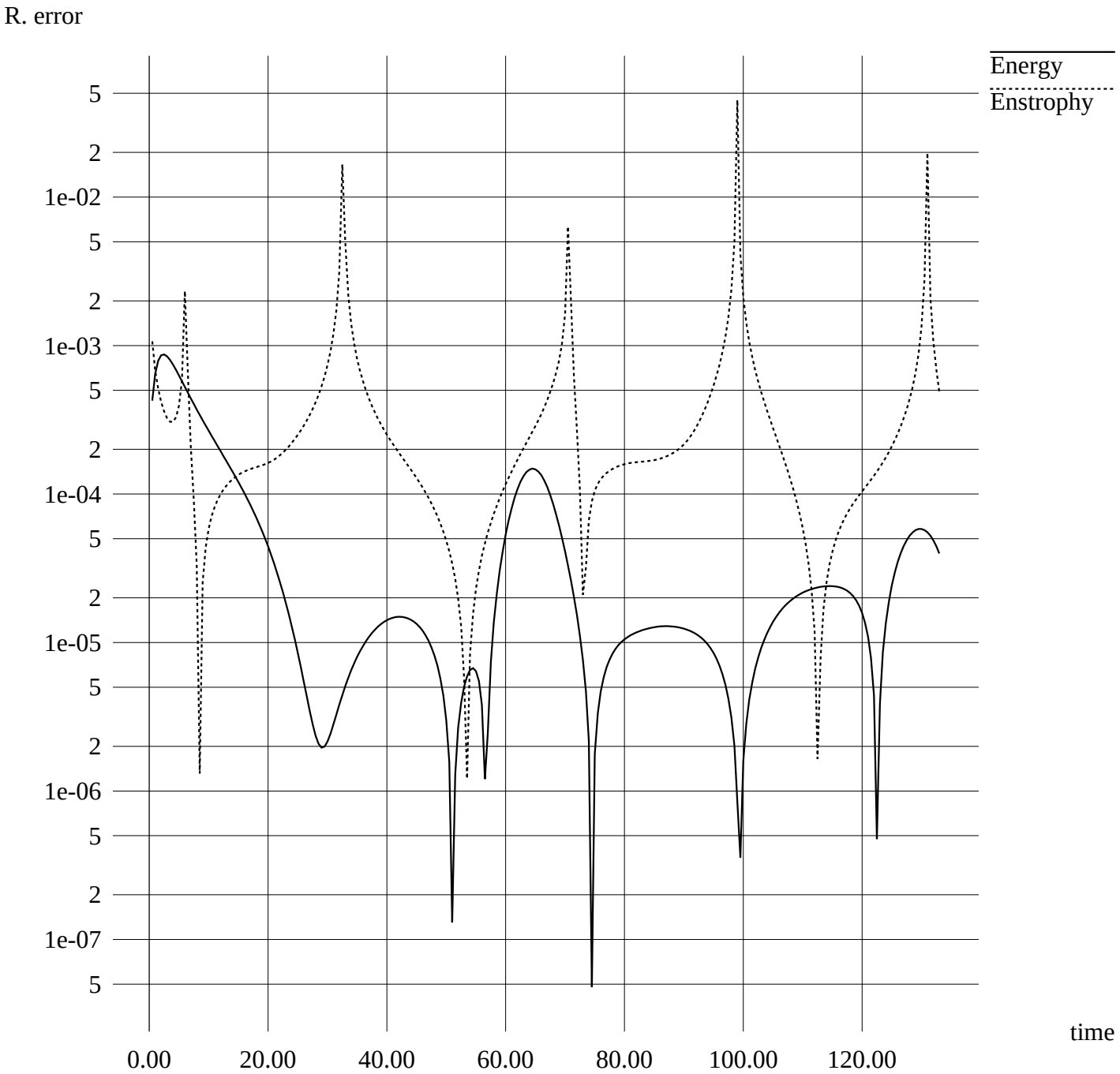Relative errors in dipole-wall collision