Just run naïve dynamics?

Atomistic resolution in space \implies Time resolution \sim fs

Events of interest: ~ 1/ms; on average 1012 time steps

Modern computers: 108 time steps (100 ns) per day!

104 days (~30 years) ... for **one** event!

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Atomistic resolution in space ⇒ Time resolution ~ fs

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10⁴ days (~30 years) ... for **one** event!

