## 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!

# Just run naïve dynamics?

Atomistic resolution in space ⇒ Time resolution ~ fs

Events of interest: ~ 1/ms; on average 10<sup>12</sup> time steps

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

10<sup>4</sup> days (~30 years) ... for **one** event!

