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Energy deposited to a carbon-60 molecule by a charged projectile

JIM PEREZ, KRISTA MORRIS, Luther College — We have developed a computer simulation based on the Classical Trajectory Monte Carlo method to study the fragmentation of a carbon-60 molecule due to a charged projectile coming in close contact with it. The projectiles used range from protons to fully ionized argon, and the collision energies range from a few eV/amu to several hundred keV/amu. Along with our studies on fragmentation of the molecule we will report our results of calculations to investigate how energy is initially deposited to the molecule by the projectile and how that energy is re-distributed after the projectile has passed by.

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