

Abstract Submitted  
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**Silicon Nanoparticle Mass by Milliken Oil Drop Experiment**

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— Silicon nanoparticles created through electrochemical etching have been found to have five unique sizes by using a transmission electron microscope (TEM). By creating an apparatus similar to the Millikan experiment an alternative method has been designed to confirm the TEM results. The particles will be suspended between two capacitor plates to allow balancing of the gravitational and electric forces as a means to calculate the mass to charge ratio. This poster will detail the designs for the experimental apparatus.

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