

Graduate Student Seminar

**Transport Studies
of Isolated
Molecular Wires in
Self-Assembled
Monolayer Devices**

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One of the areas from which Nanotechnology seems to be developing rapidly is known as molecular electronics. In this area, silicon is replaced by Pi-conjugated polymers as well as some molecules behaving like semiconductors. If molecular electronic will one day replace conventional electronics, it is imperative that we reproduce all the basic electronic devices such as wires, diode, transistors...etc

In our group, we have decided to focus on the fabrication of molecular diode. For that purpose, we use the Self-assembled monolayer (SAM) method. In this talk we intend to introduce this method and how it has been used for the fabrication of molecular diodes; also we intend to present some results that were obtained in the study of these devices.

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