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Laser Induced Structural Modification of Single Layer and Bi-layer Graphene PUBUDU GALWADUGE, JOSEPH LAMBERT, ROBERTO RAMOS, Drexel University — Graphene is a two-dimensional crystal experimentally observed in its free standing form a few years ago. Electronic devices such as chemical sensors, superconducting transistors and room temperature single electron transistors have been fabricated using graphene. There is also evidence to suggest that graphene layers undergo physical transformation under laser irradiation. We report on our experimental progress in modifying single and bi-layer graphene under varying conditions of laser excitation energy, power and exposure time.

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