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Furthermore it is shown that graphene-superconductor-graphene junctions can be used to favor the splitting of Cooper pairs for the generation of non-locally entangled electron pairs. Finally, using similar techniques the thesis analyzes the transport properties of carbon nanotube devices coupled with superconducting electrodes and in graphene superlattices.

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Experimentally, previous attempts to induce superconductivity in monolayer graphene were limited to the proximity induced superconductivity¹⁹ and in situ ARPES measurements on metal decorated graphene^{20,21} which identified features attributed to dopant-related vibrational modes²⁰ and found signatures of heavy doping as well as the appearance of an IL band in Ca-intercalated graphene bilayer (no IL band could be seen for Li intercalation).

Superconductivity in Ca-doped graphene laminates

Furthermore it is shown that graphene-superconductor-graphene junctions can be used to favor the splitting of Cooper pairs for the generation of non-locally entangled electron pairs. Finally, using...

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Furthermore it is shown that graphene-superconductor-graphene junctions can be used to favor the splitting of Cooper pairs for the generation of non-locally entangled electron pairs. Finally, using similar techniques the thesis analyzes the transport properties of carbon nanotube devices coupled with superconducting electrodes and in graphene superlattices.

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