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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 superconductivity 19 and in situ ARPES measurements on metal decorated graphene 20,21 which identified features attributed to dopant – related vibrational modes 20 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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