

End of the year report

Nanoscience class – Year 1 Domenic Prete 17/10/2019



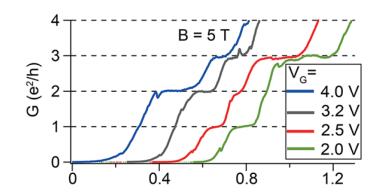


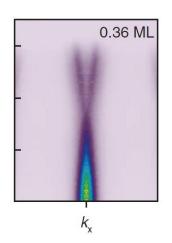
Courses and exams

• Seminars on condensed matter

Split-channel ballistic transport

in an InSb nanowire





Nanostructured materials

Observation of tunable band gap

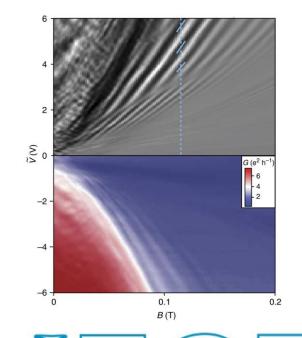
and anisotropic Dirac semimetal

state in black phosphorus

• Physics of nanostructures

Snake trajectories in ultraclean

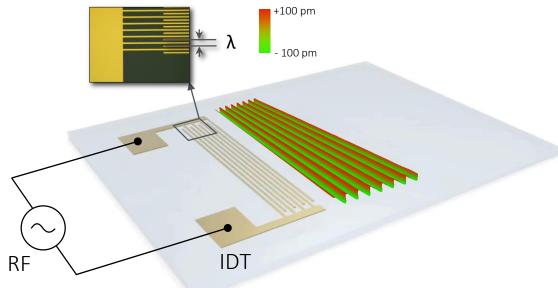
Graphene p-n junctions

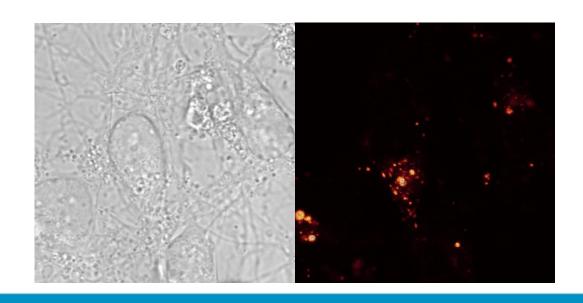




Stages

Marco Cecchini group – Microfluidics



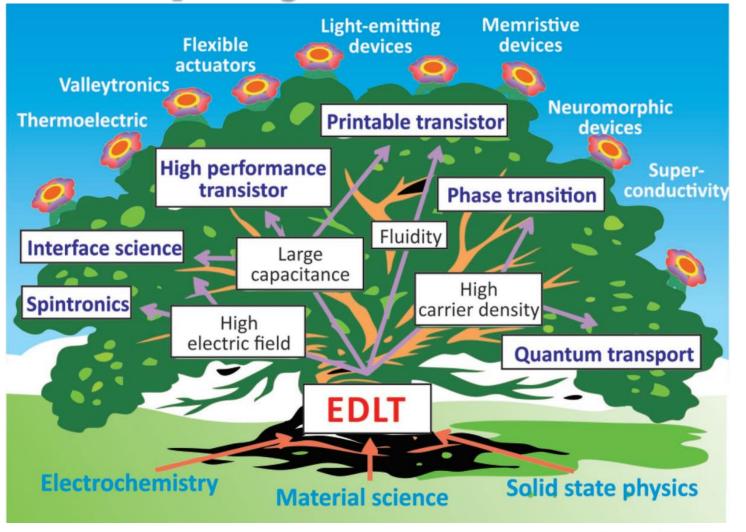


Francesco Cardarelli group – Correlation spectroscopy





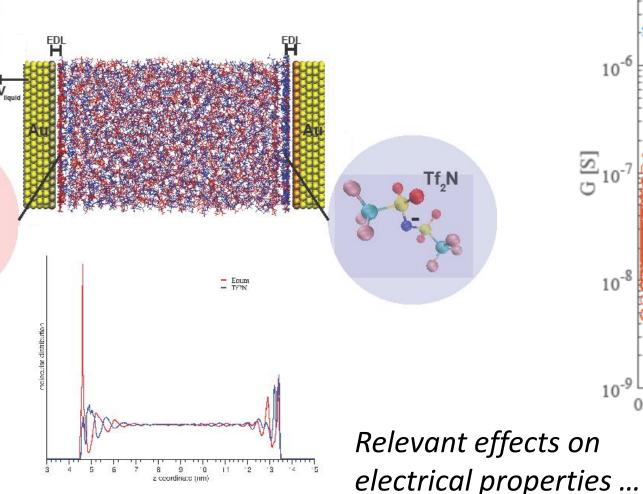
Thesis project: iontronics

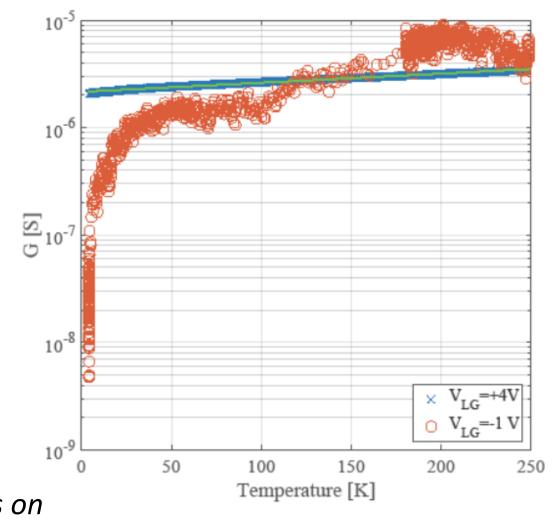




Emim

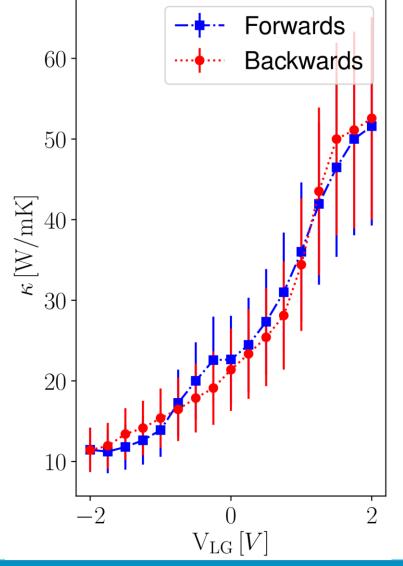
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... also on thermal transport!

