How to transfer an invention to the market? <R&D | Unitec | R&D> = Innovation

Charlyne Gaidier-Rabe and <u>Julien Levallois</u> (Unitec)

Unitec is the Technology Transfer Office (TTO) of the University of Geneva. Our mission is to help you to bring your inventive technology from the lab to the market, by protecting your Intellectual Property (IP) with patents for instance, and by finding industrial partners for collaboration or licensing. Unitec also encourages the creation of spin-offs.

During your collaboration with industry, Unitec provides you with a legal support for the drafting and negotiations of any legal agreements (from a simple Non-Disclosure Agreement (NDA), through the establishment of collaboration or service agreement, joint ownership agreement, to a license agreement).

More info here: https://www.unige.ch/unitec/

Magneto-optical properties of high-quality graphene

Ievgeniia Nedoliuk (group of Prof. van der Marel)

Apart from being strong and highly conductive, graphene also has supreme magneto-optical properties. Theoretical calculations predict magneto-optical absorption in a graphene monolayer to be very large compared to other materials, in fact the value of its absorption may approach 50%, a fundamental limit for thin films. However in experiments performed so far, magneto-optical absorption of graphene was several orders of magnitude lower. This puzzling result was often attributed to the low quality of graphene crystals or inadequacy of theoretical calculations. At the same time measuring magneto-optical spectra of high-quality samples was not feasible until now which did not allow clarifying properties of graphene. Here we present infrared magneto-optical transmission spectra of high-quality hBN-encapsulated graphene and newly developed setup which allowed to perform these measurements. We report high values of graphene's magneto-absorption (up to 36% in a monolayer). Apart from that, we have also observed several spectral features which were not predicted by theoretical models proposed so far.

Forum Committee: C. Lichtensteiger, N. Ubrig, A. Tamai (23.10.2017)



