



Jacek Kasprzak

Institut NEEL CNRS, Grenoble

Faculty of Physics University of Warsaw (Programme ZIP)

Reflectance from single excitons: context and prospects

Reflectivity is one of the most straightforward and insightful approaches of optical spectroscopy. It consists in measuring spectral changes in the light reflected from a piece of material, as governed by its optical susceptibility. In semiconductors, the latter displays resonances below the bandgap owing to formation of excitons. In this talk, I will highlight how to measure reflectance from a **single** exciton and why. I hope to convince the audience that such experiment, combined with theoretical guidance, yields pertinent results and prospects in the field of coherence of condensed matter and optical quantum engineering.



Rzeczpospolita
Polska

Unia Europejska
Europejski Fundusz Społeczny

