

PLASMON ENHANCED TERAHERTZ ELECTRON PARAMAGNETIC RESONANCE Horizon 2020 project FET OPEN

Project Outcomes

- » Establishing a brand novel terahertz-frequency EPRmicrospectroscopic technique based on a combination of plasmonicbased magnetic field enhancement and scanning probe microscopy.
- » Developed THz EPR micro-spectroscope will offer unprecedented sensitivity (several orders higher than conventional EPR instruments) and spatial resolution below 1 µm (approx. 1/300th of used wavelength).

Why all the fuss?

If successful, PETHz EPR micro-spectroscopy will mean a revolution in the field of EPR by opening new possibilities to in-situ study of wide variety of materials for scientific, technological and medical purposes.



This project has received funding from the European Union's Research and Innovation programme Horizon 2020 under Grant Agreement No. 767227.







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