

PhD/MSc research positions in the lab of prof. Ori Cheshnovsky: Microscopy and spectroscopy of nanostructures



Methods in super-resolution microscopy for the observation and chemical characterization of nano-objects and nanostructures. Special emphasis on label-free methods avoiding the labeling of the objects with fluorescent dyes. The methods are well tailored for nano-material research.

Development of methods to measure light absorption and light extinction in individual nano-objects and nanoparticles.

Characterization of individual nanoparticles in the search for direct band gap photovoltaic materials. The major focus is on finding Ge/Si core-multi-shells nanowires with enhanced photovoltaic yields in the infrared.

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