



Joint LLC Seminar

Monday May 24, 15:15

Place:

<https://lu-se.zoom.us/j/5172088550>

Tönu Pullerits

Chemical Physics, Lund University

Hunting for better use of light energy, equipped by ultrafast lasers

I will summarise our work on ultrafast processes in solar energy materials where the aim is to find ways for more efficient light harvesting. I will focus on multiple exciton generation in colloidal quantum dots and hot electron cooling in perovskite nanostructures. The results will be discussed in the context of the prospects of breaking the thermodynamic efficiency limit of conventional solar cells. I will also present the results of our very recent work on photo-catalysis.

*Selve service of coffee and cakes in front of your
own computer*



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