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HiWi Position

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Topic: Development of Fourier-Transform Photocurrent Spectroscopy (FTPS) Setup

Photocurrent method based on the Fourier transform and called FTPS (Fourier Transform Photocurrent Spectroscopy) is a spectroscopic method where monochromator is replaced by FTIR (Fourier Transform Infrared) spectrophotometer and a solar cell or photoconductive layer is used as an external detector. This method is used mainly for the thin film photovoltaics, where the quality of semiconducting layers are monitored. The measurement is much faster and much more sensitive in near / middle IR regions compared to the usual Incident photon-to-current efficiency (IPCE) measurement. In this project, we will develop a FTPS setup for organic / hybrid photovoltaics purpose.

Your Profile:

- Motivated, independent, reliable, and accurate
- Experience on Labview
- Good knowledge of optical and electrical elements
- Good command of English in speech and writing

Please send your application with Curriculum Vitae and ideally with contact information for a reference as a pdf-file to tayebeh.ameri@lmu.de.