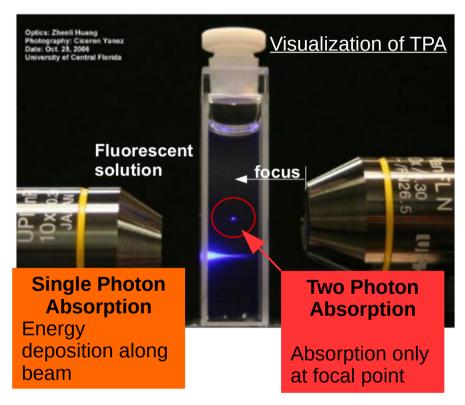
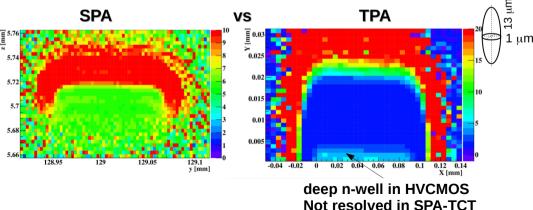


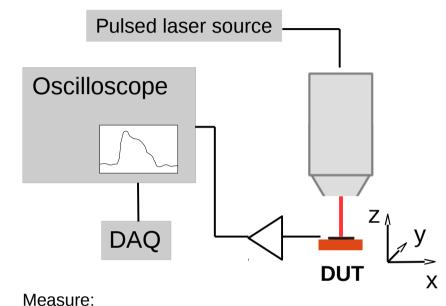
## TPA - TCT



### **Two Photon Absorption - Transient Current Technique**







electron/hole signal (top/bottom injection) sensor bulk properties (edge injection)

- signal / noise
- charge collection time
- charge collection homogeneity
- electric field profile
- effective doping concentration

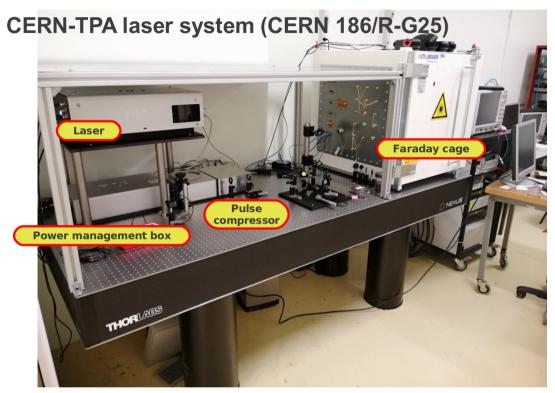
available at CERN - SSD TCT+ (B186) Christian Gallrapp, "The TCT+ setup - a system for TCT, eTCT and timing measurements", 1st TCT Workshop DESY



# TPA - TCT

# TREBURG.

#### **Two Photon Absorption – Transient Current Technique**



- 12<sup>th</sup> of March 2013, first TPA-TCT measurement at SGIker facility of UPV, Bilbao
- November 2014: Presentation of TPA-TCT at 25th CERN RD50 workshop
- 2013 2017: TPA-TCT measurements at UPV, Bilbao
  - 1) NIMA Vol 845, 11 February 2017, Pages 69-71
  - https://doi.org/10.1016/j.nima.2016.05.070
  - 2) Journal of Instrumentation, Volume 12, January 2017

http://iopscience.iop.org/article/10.1088/1748-0221/12/01/C01038









- Compact TPA - TCT setup in commissioning phase at CERN SSD lab

