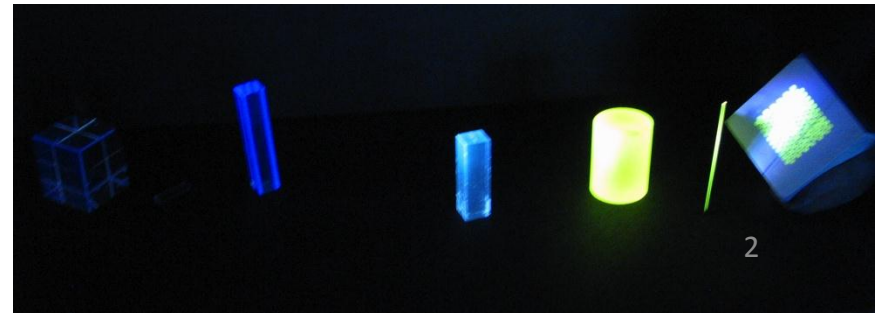




# PicoSEC Activities at CERN

E. Auffray, PH-CMX

- Characterization of scintillating crystals and fibers
  - Optical, scintillation, radiation hardness properties
- Understanding and improvement of light transport & collection
  - Ray tracing simulation
  - Surface treatment
  - Development of photonic crystals, optical components





# WP2 : Photodetectors

- Characterization of different types of SiPM
- Performance studies of crystal & SiPM
  - Light yield, energy resolution, timing performance
- Optimization of crystal-photodetector coupling

- Design and realization of detector matrices (Xtal + photodetector) for PET and calorimetry
- Test performances in test beam

