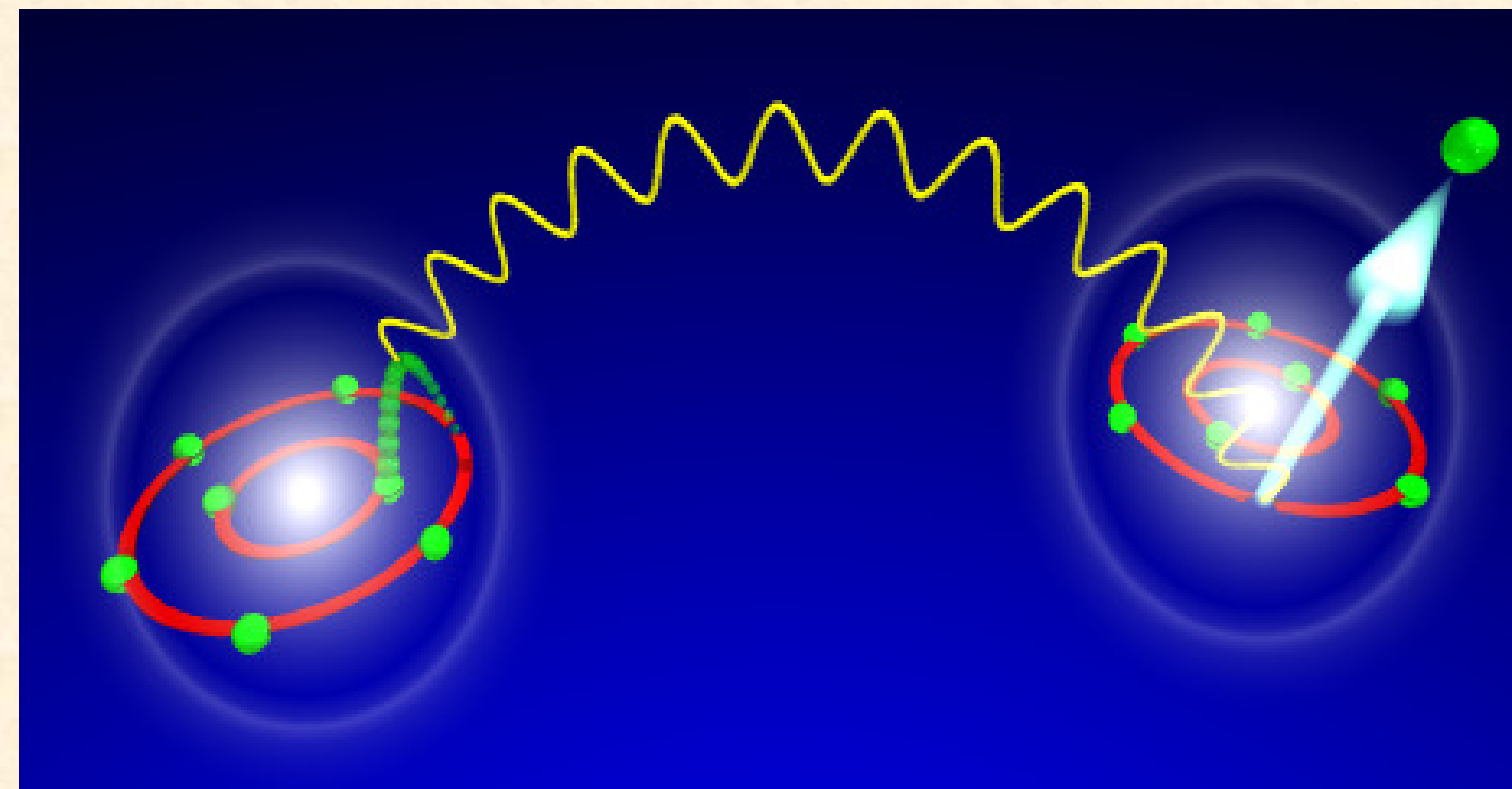
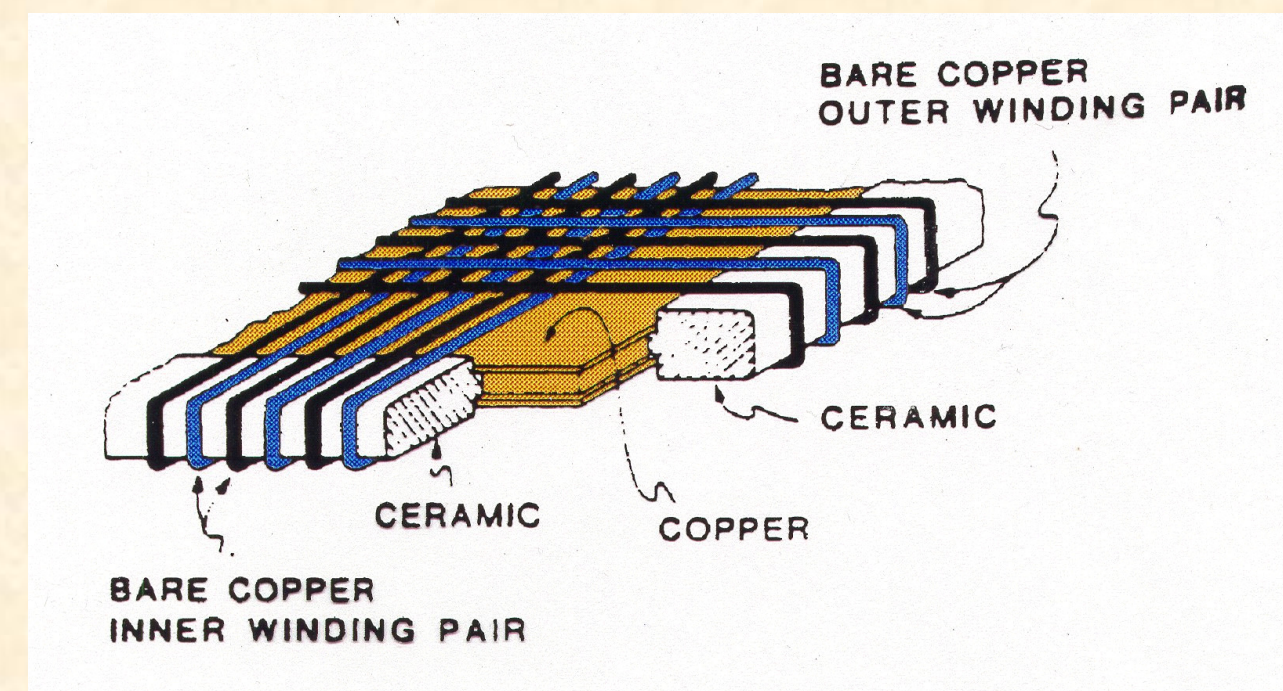




Position- & time-sensitive particle/photon counting with **MCP** and helical wire **delay-line** anodes

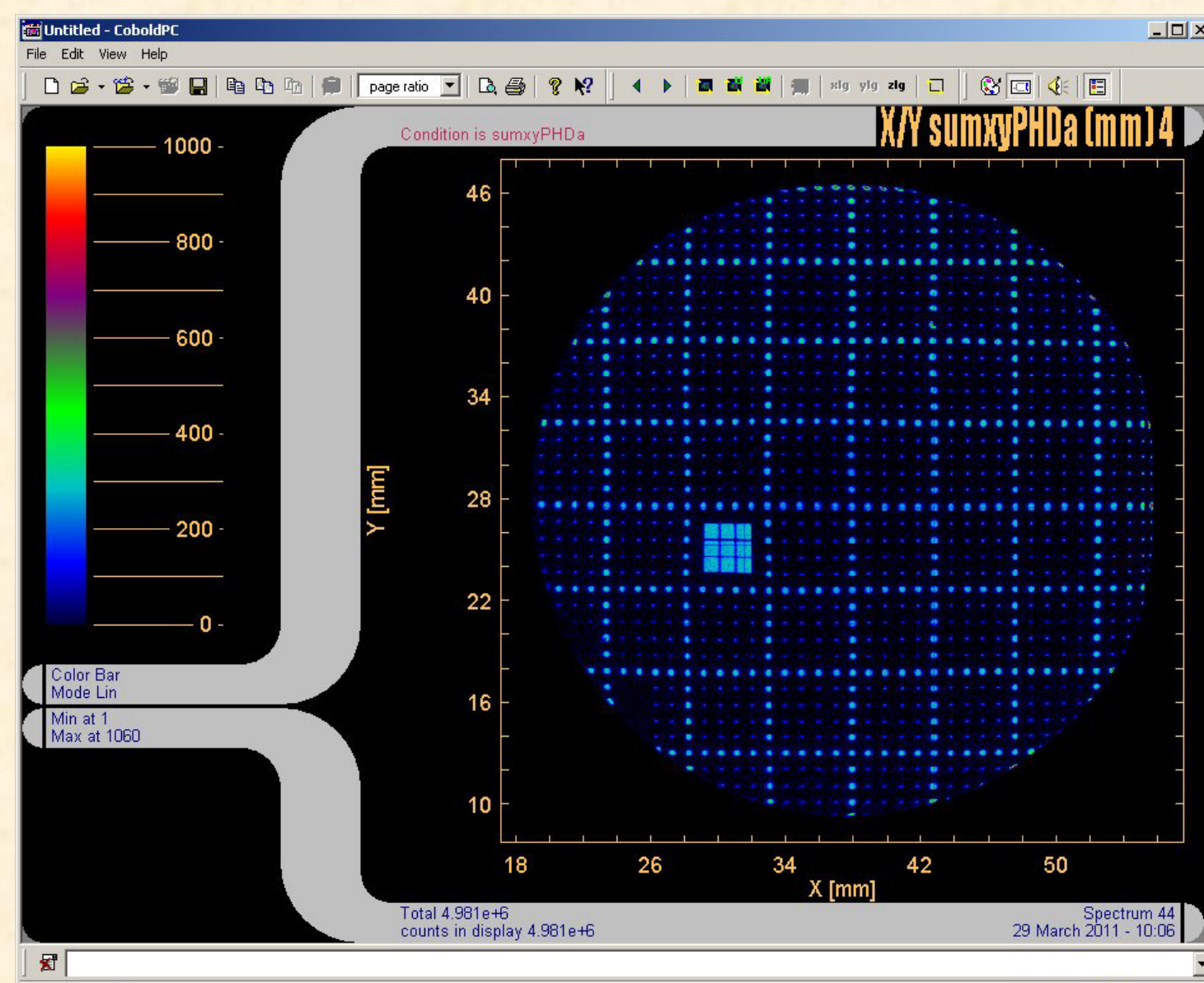
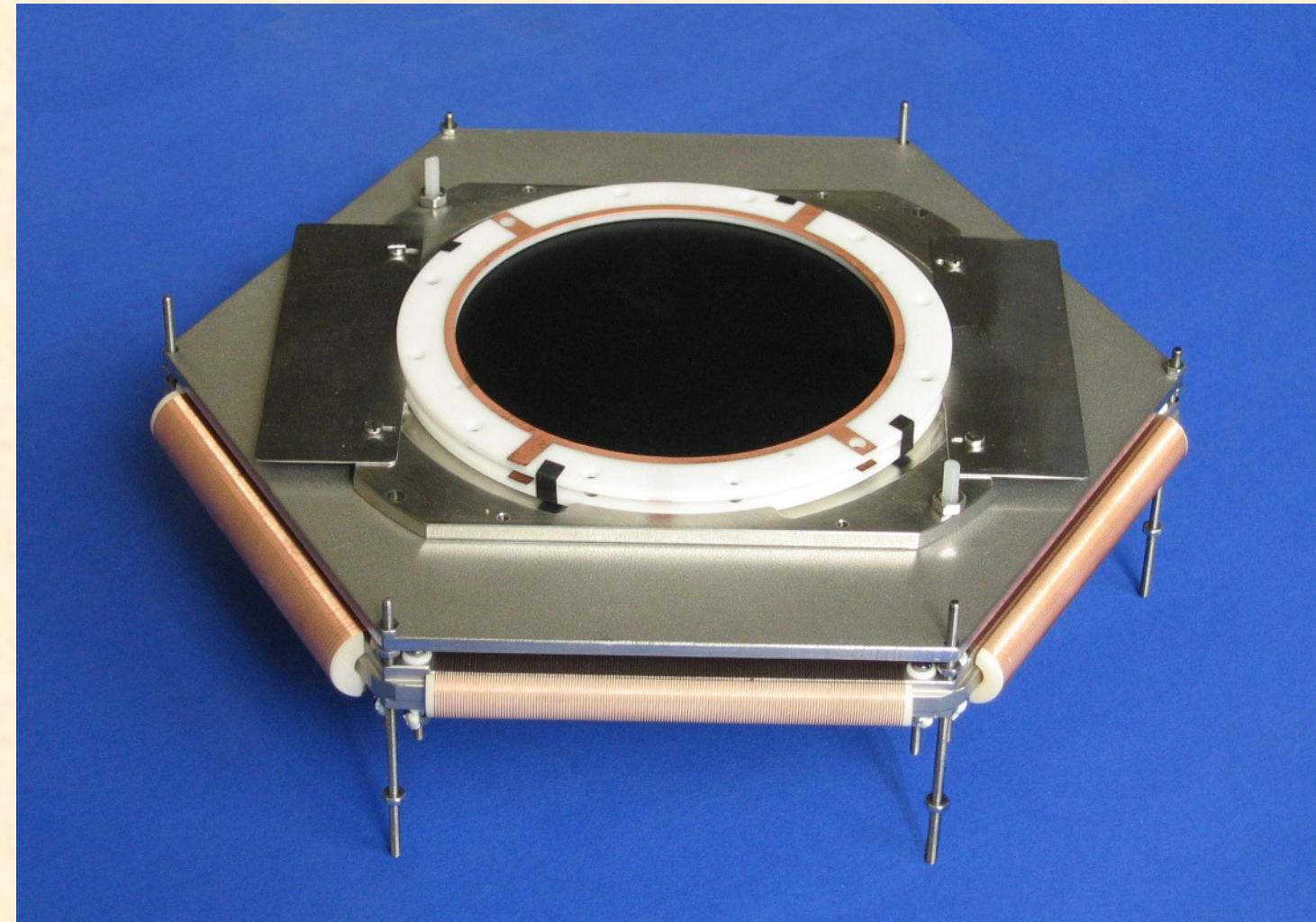
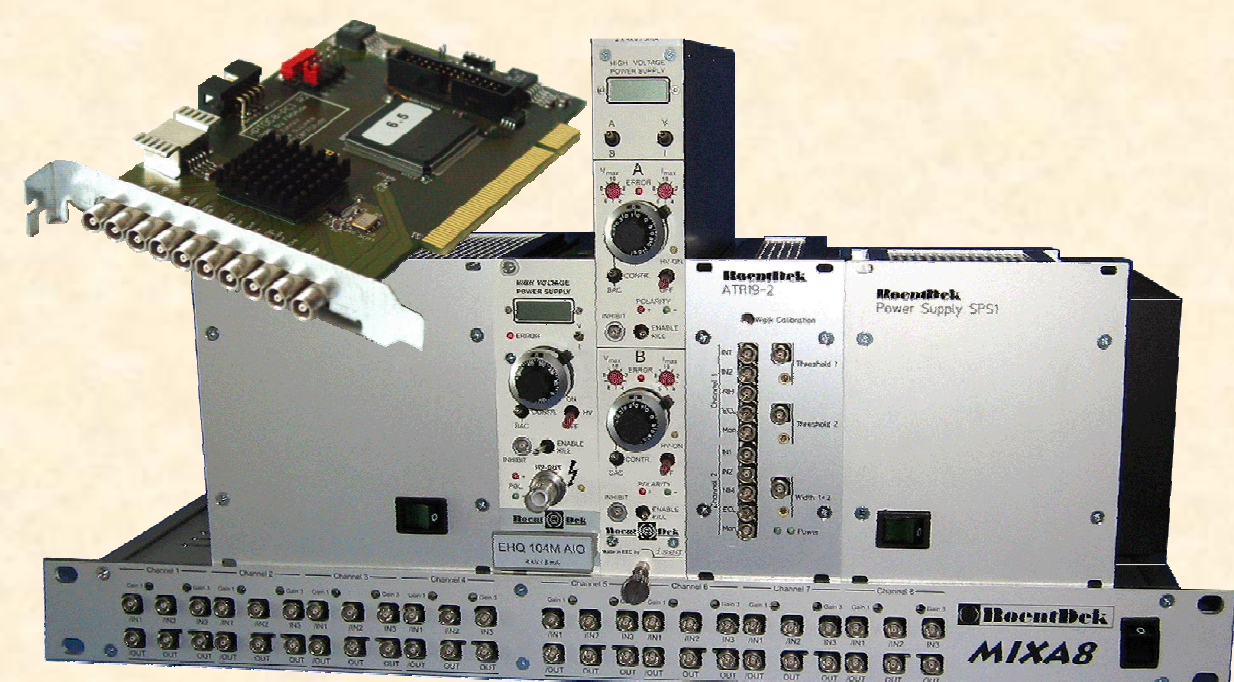


Spatial resolution **< 100 μm** (FWHM)
 Temporal resolution **< 100 ps** (FWHM)
 Count rate **> 1 MHz**
 Image format **25 - 150 mm** (200?)

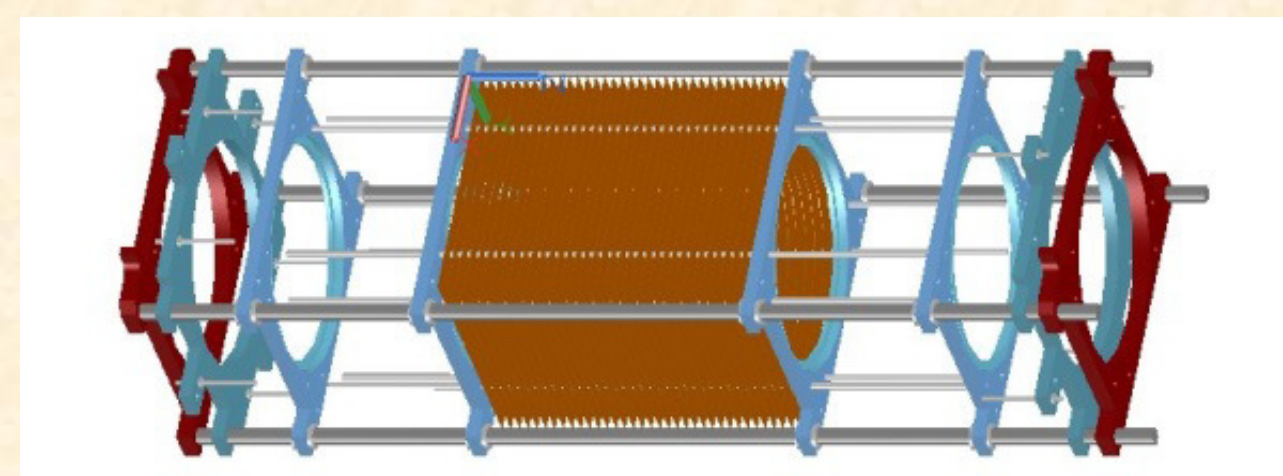
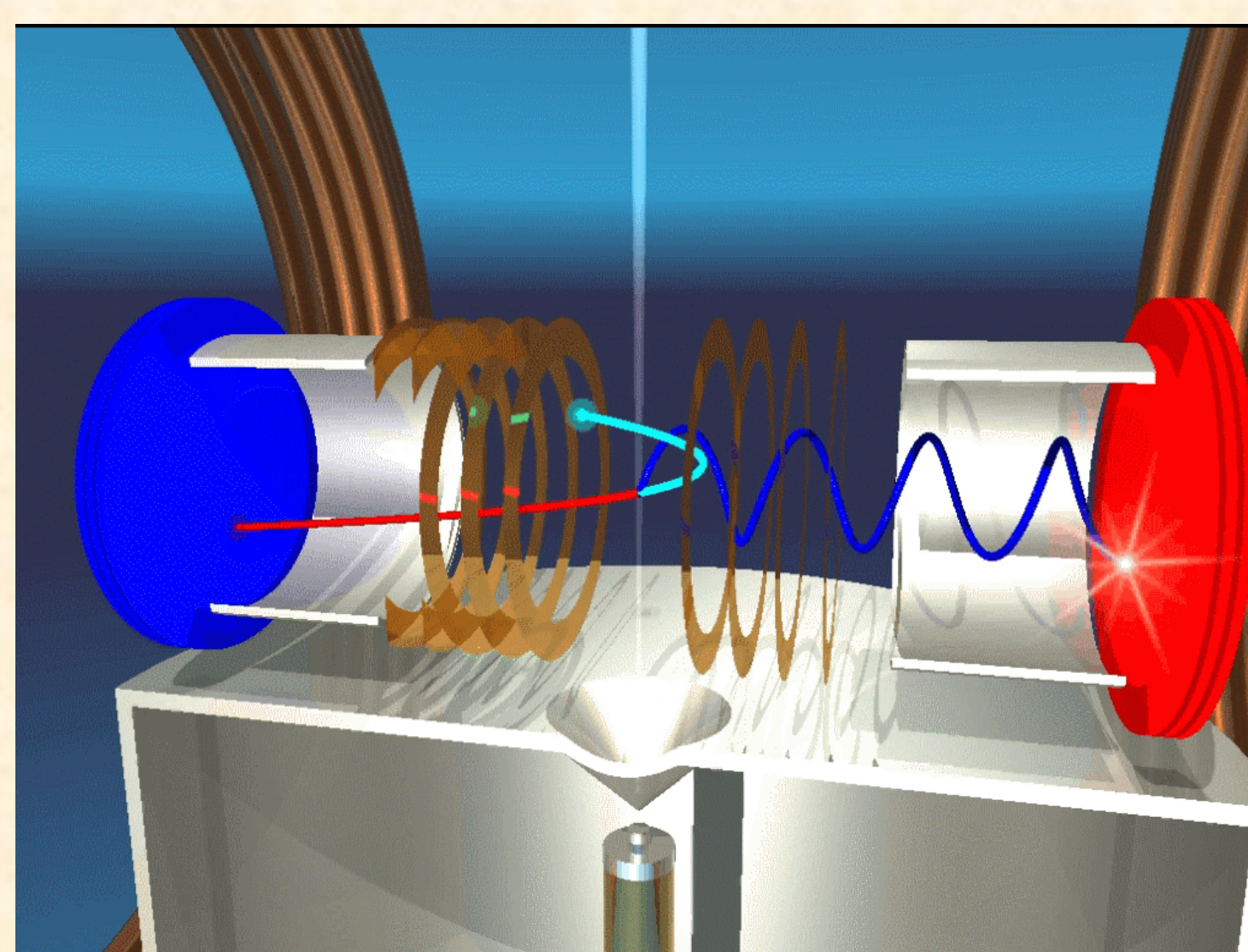
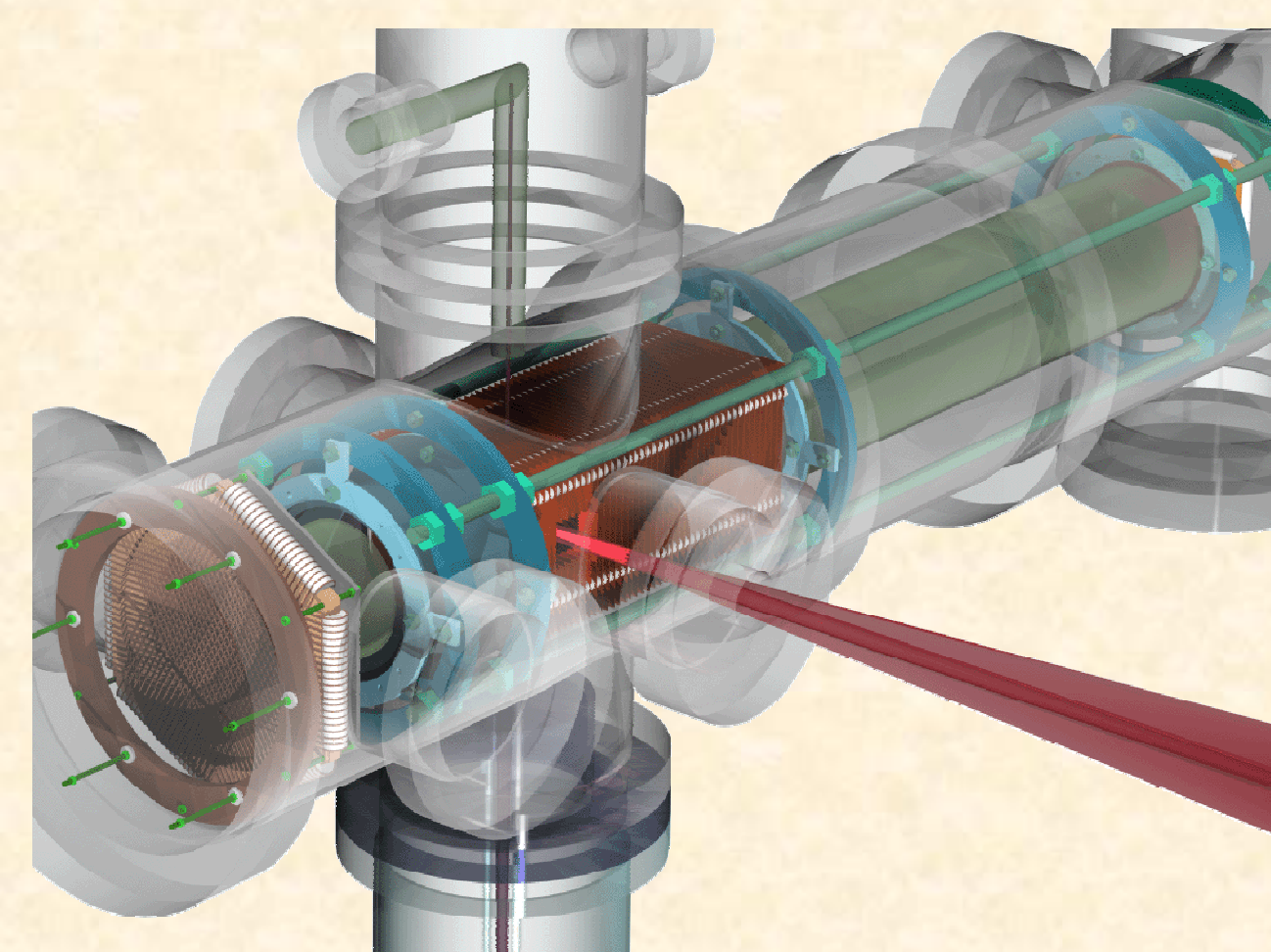
useful for **coincidence** experiments

multi-hit detection with Hexanode

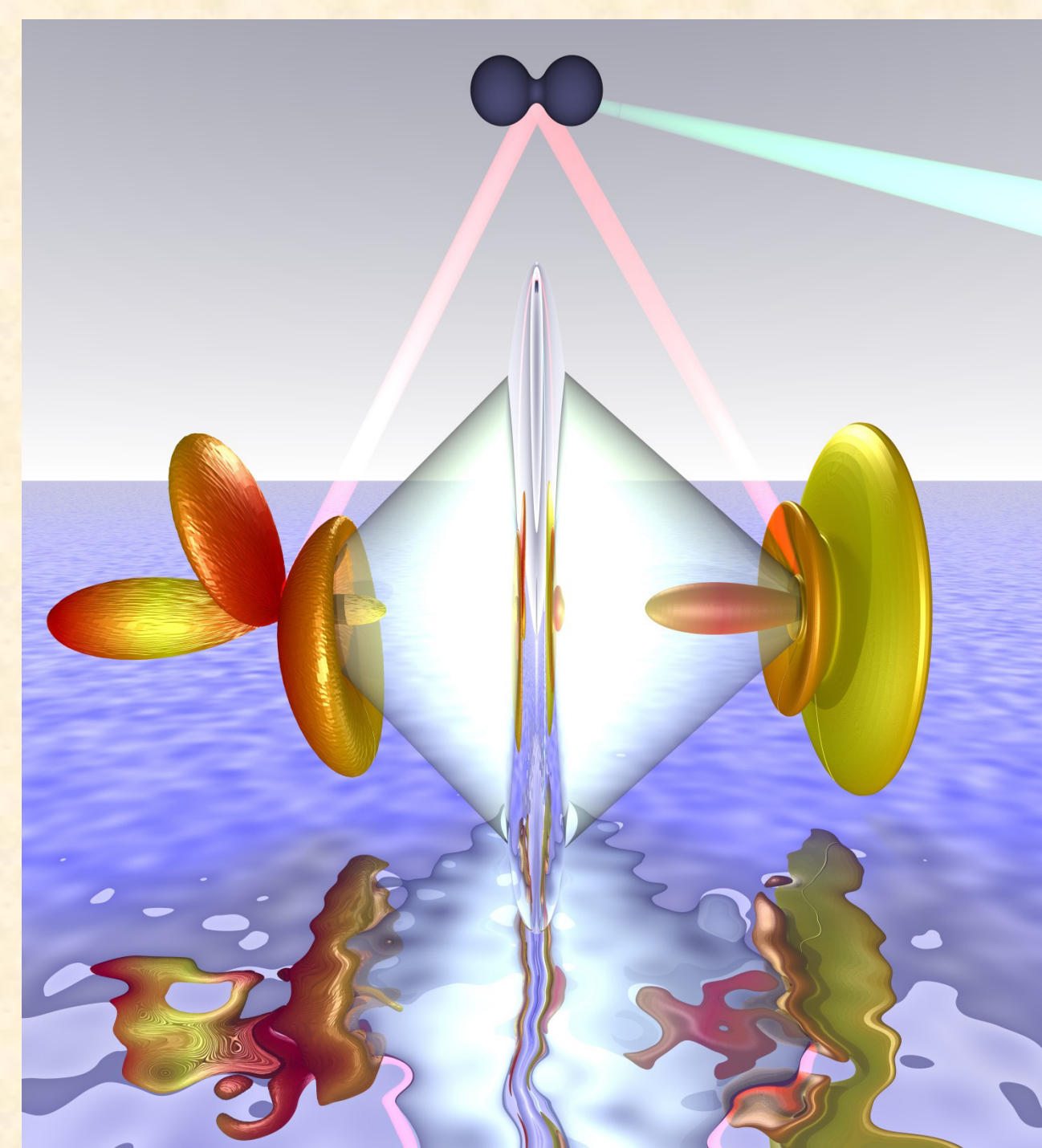
Complete read-out electronics/ software



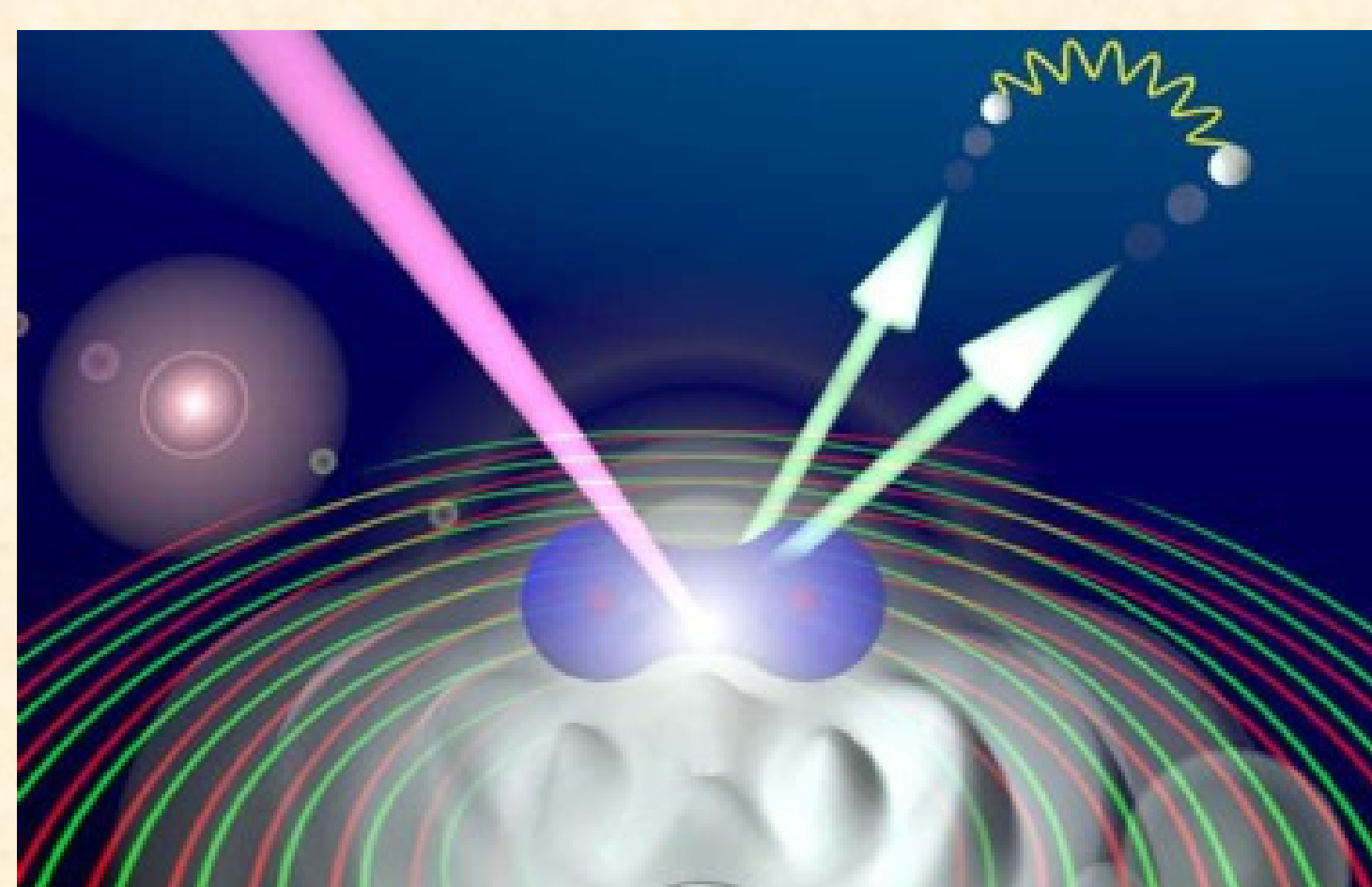
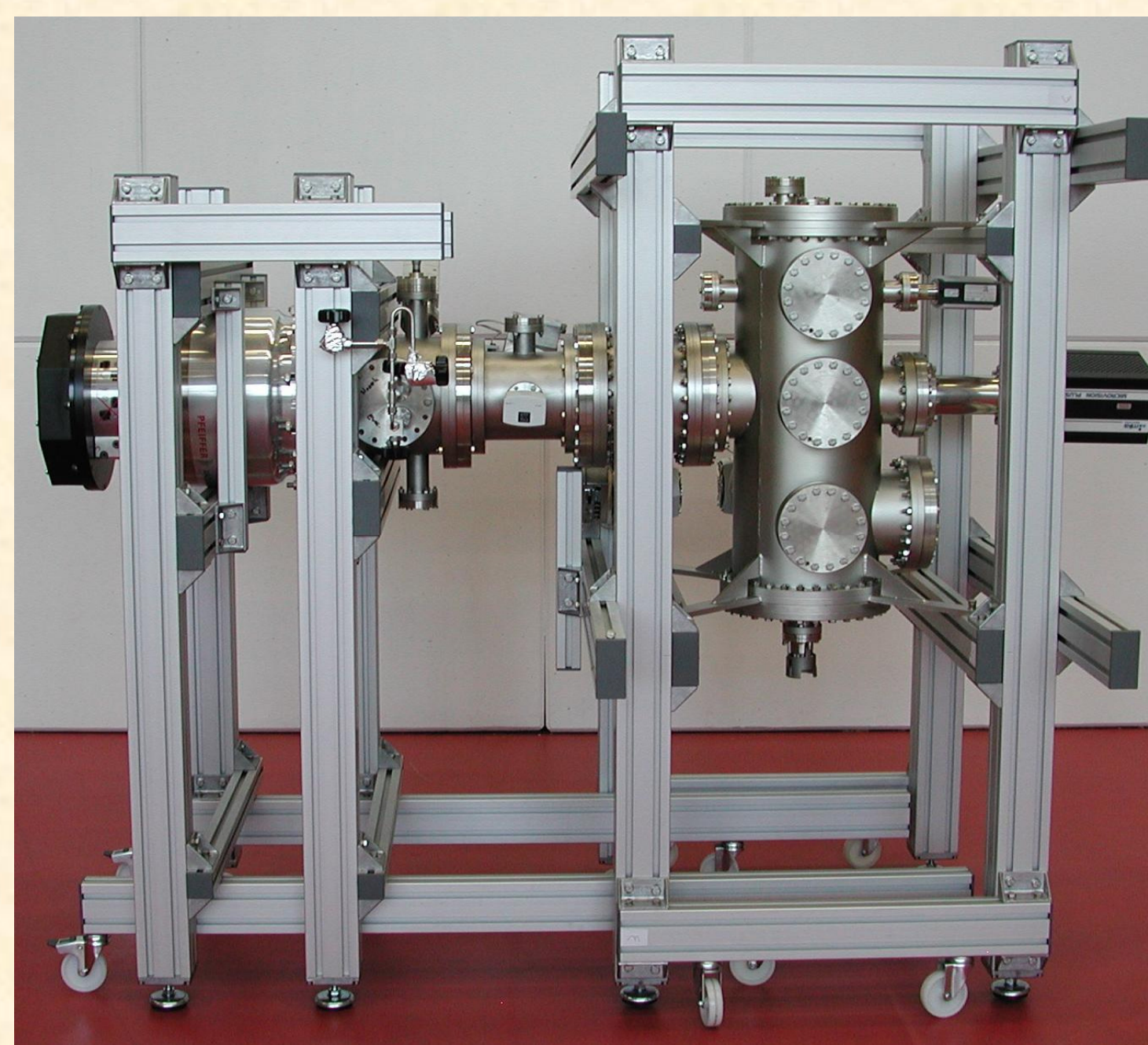
Main application: Multi-fragment (momentum) imaging: **COLTRIMS**, VMI, Reaction Microscopy



- Supply of components for spectrometers, gas jet systems, suitable vacuum equipment
- Custom-made Spectrometer Systems
- **Complete technical solutions**
- **Competent scientific and engineering support**

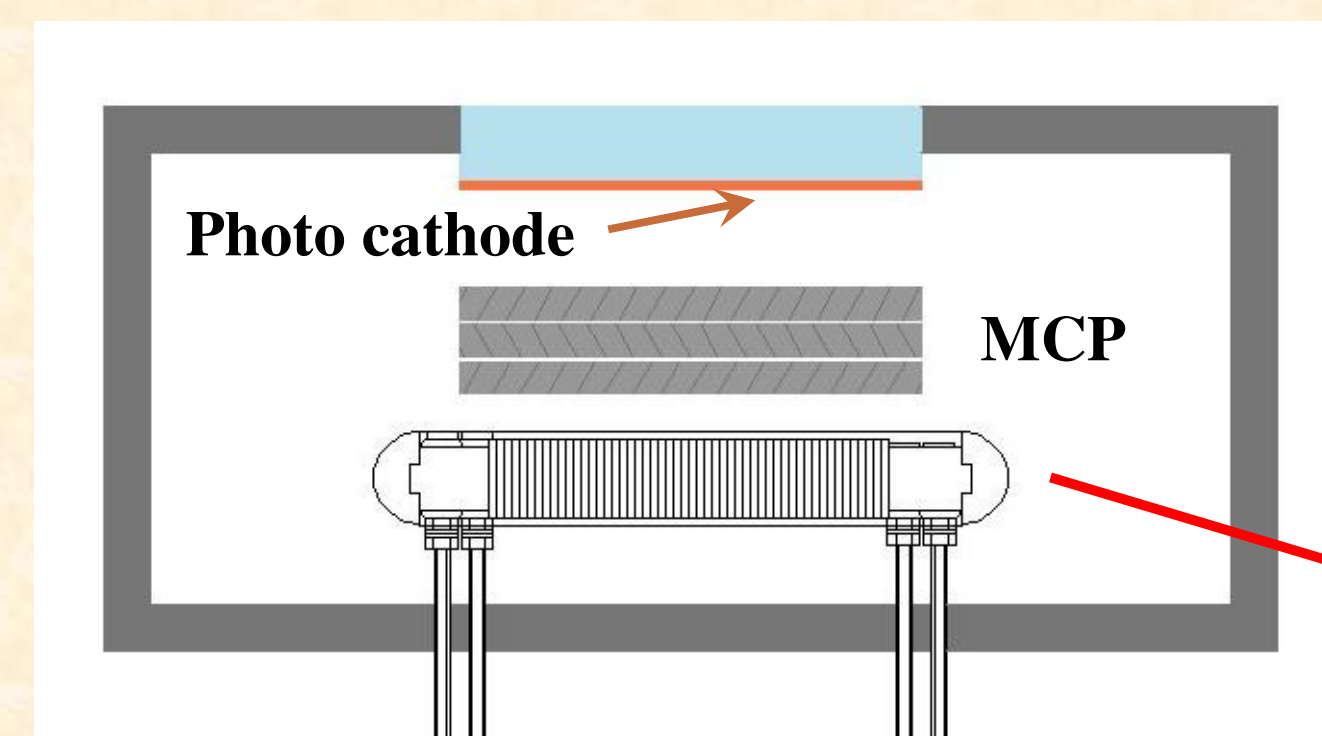


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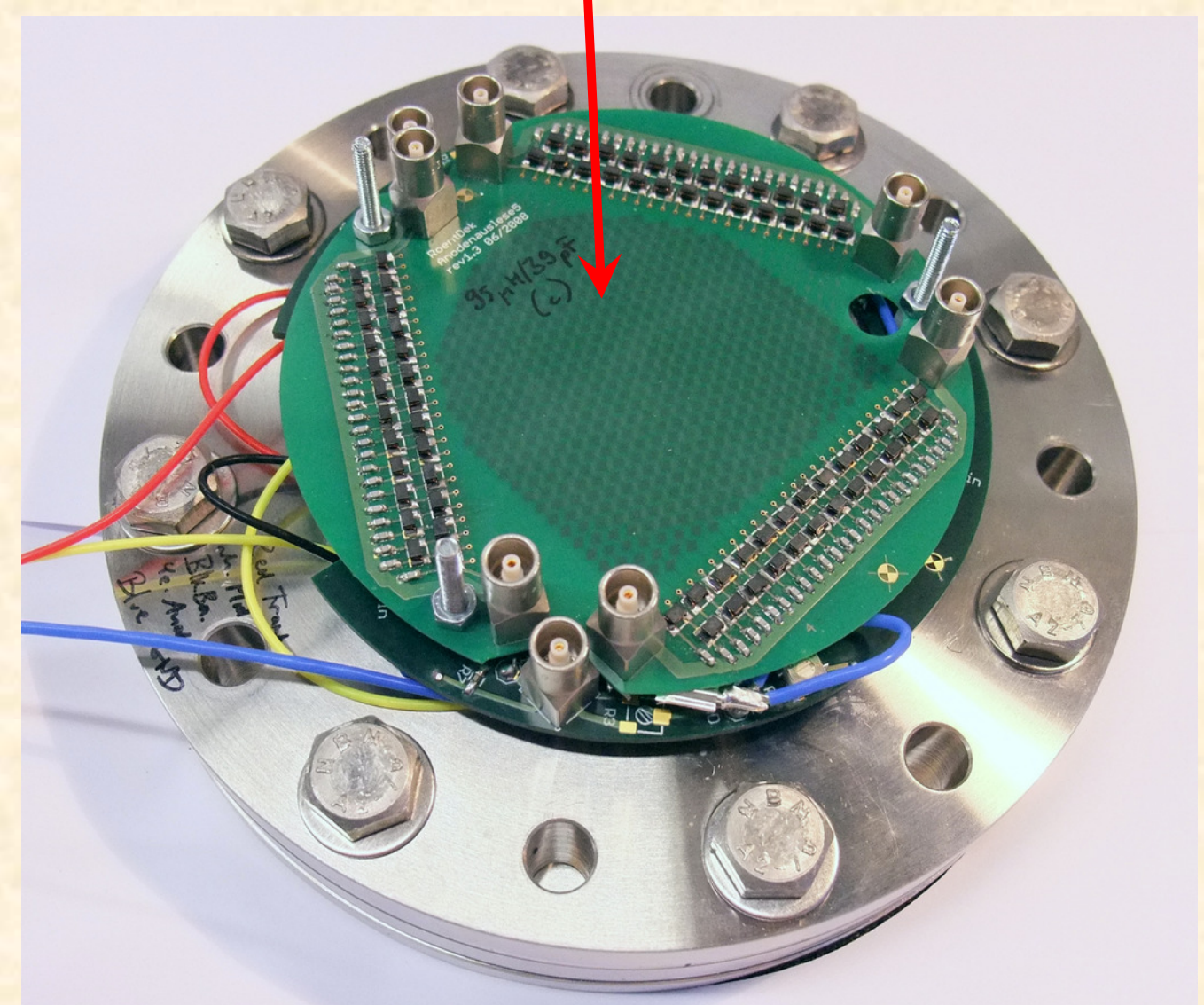
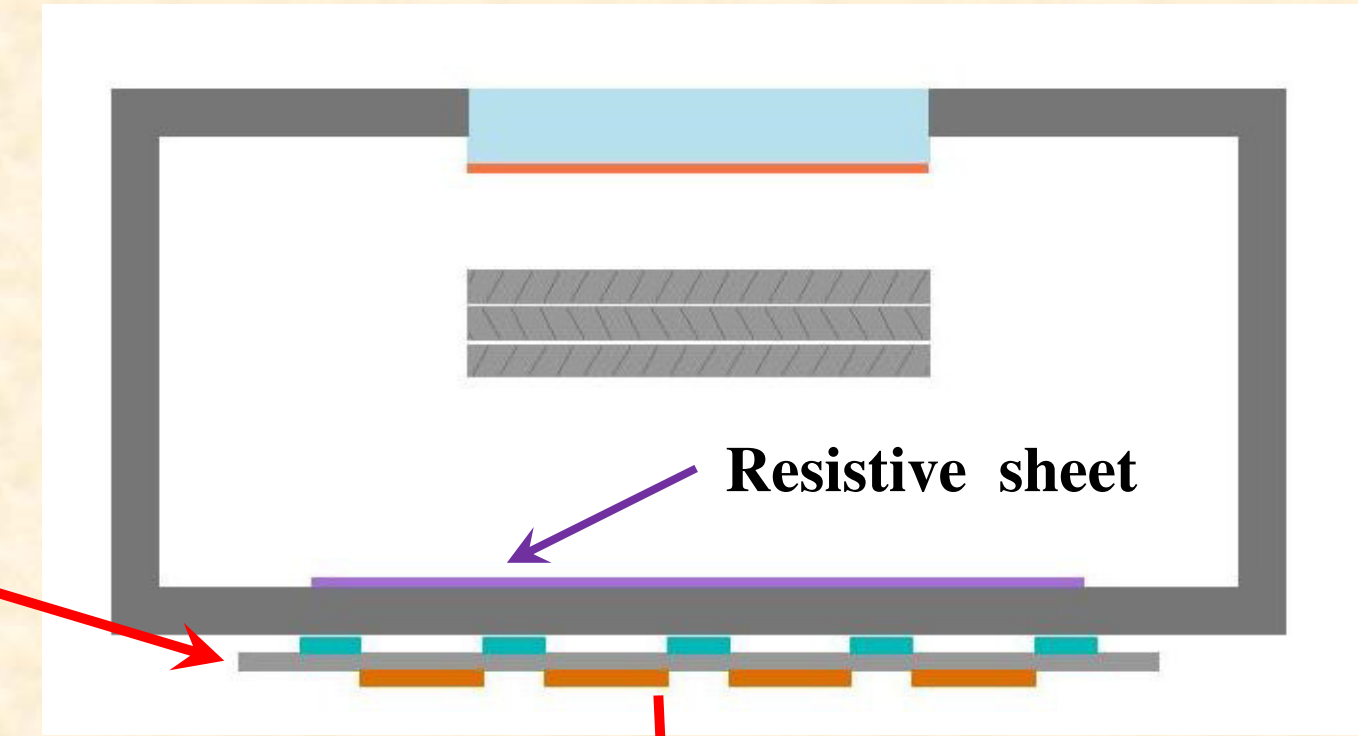
MCP-PMT for position- & time-sensitive counting of visible photons with **air-side** delay-line anodes



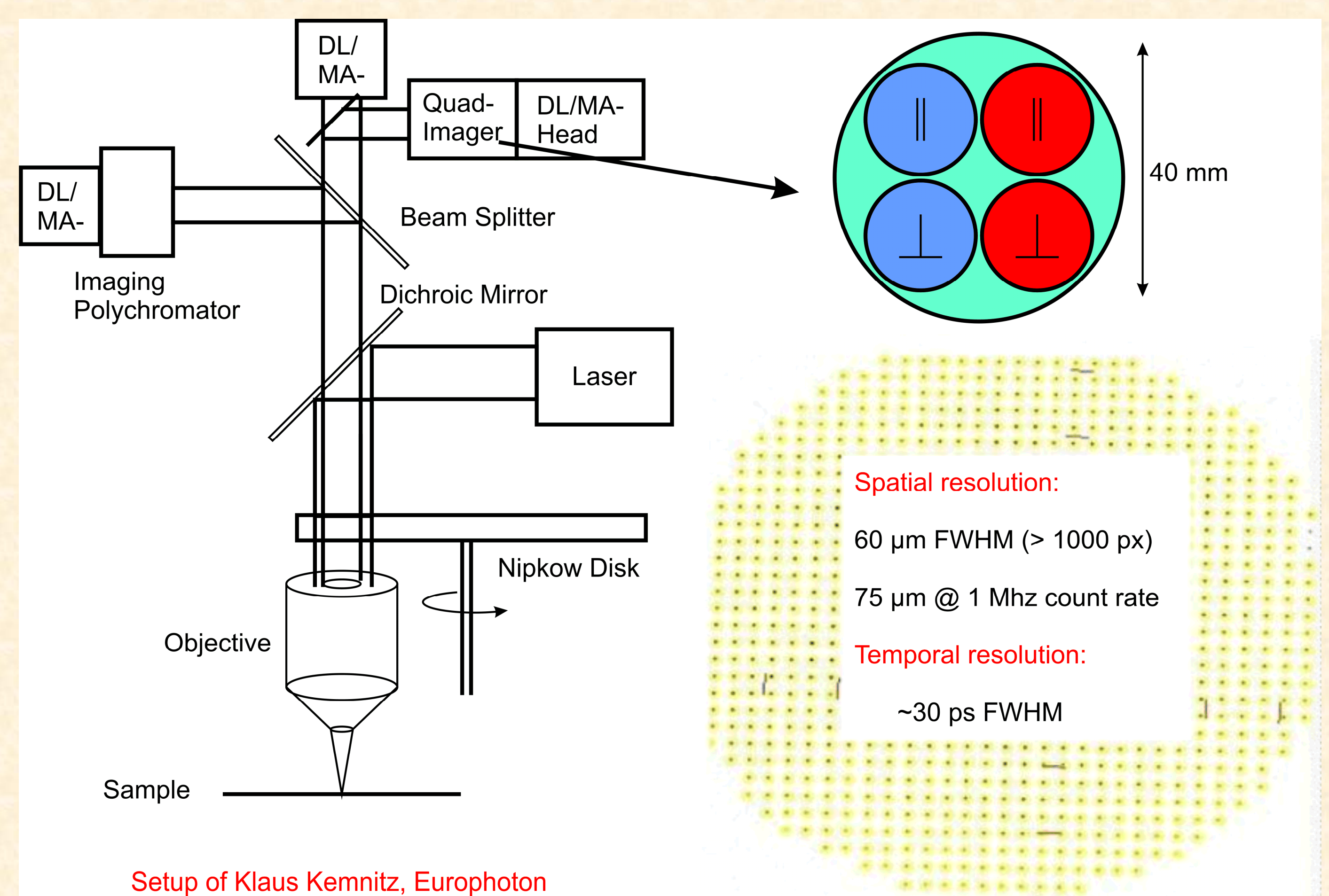
MCP photo multipliers expand the photon detection range to UV/visible wavelengths

Tube manufacturing is eased by applying an **image charge coupling** method to air-side read-out anodes (delay-line, reconfigurable)

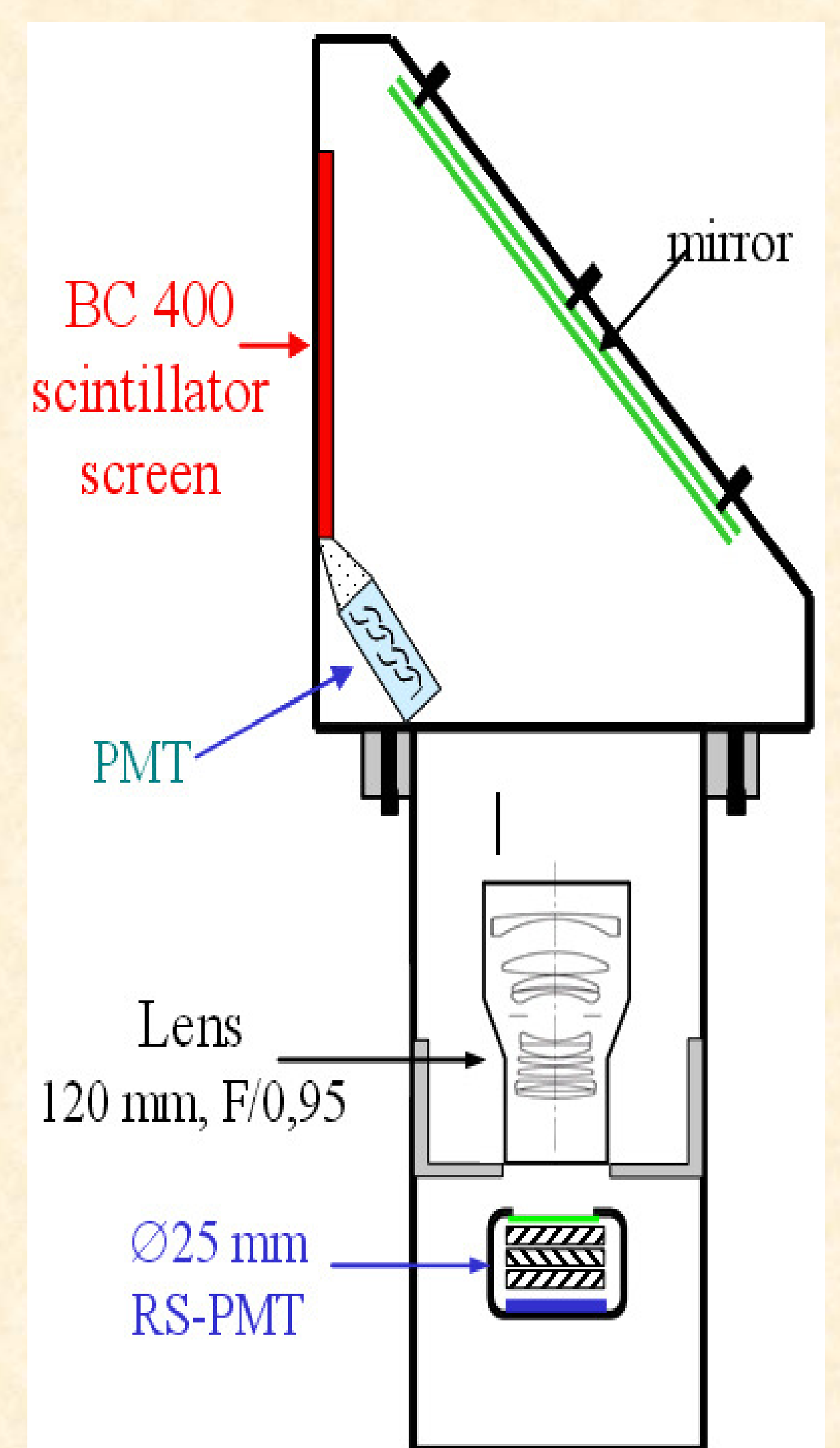
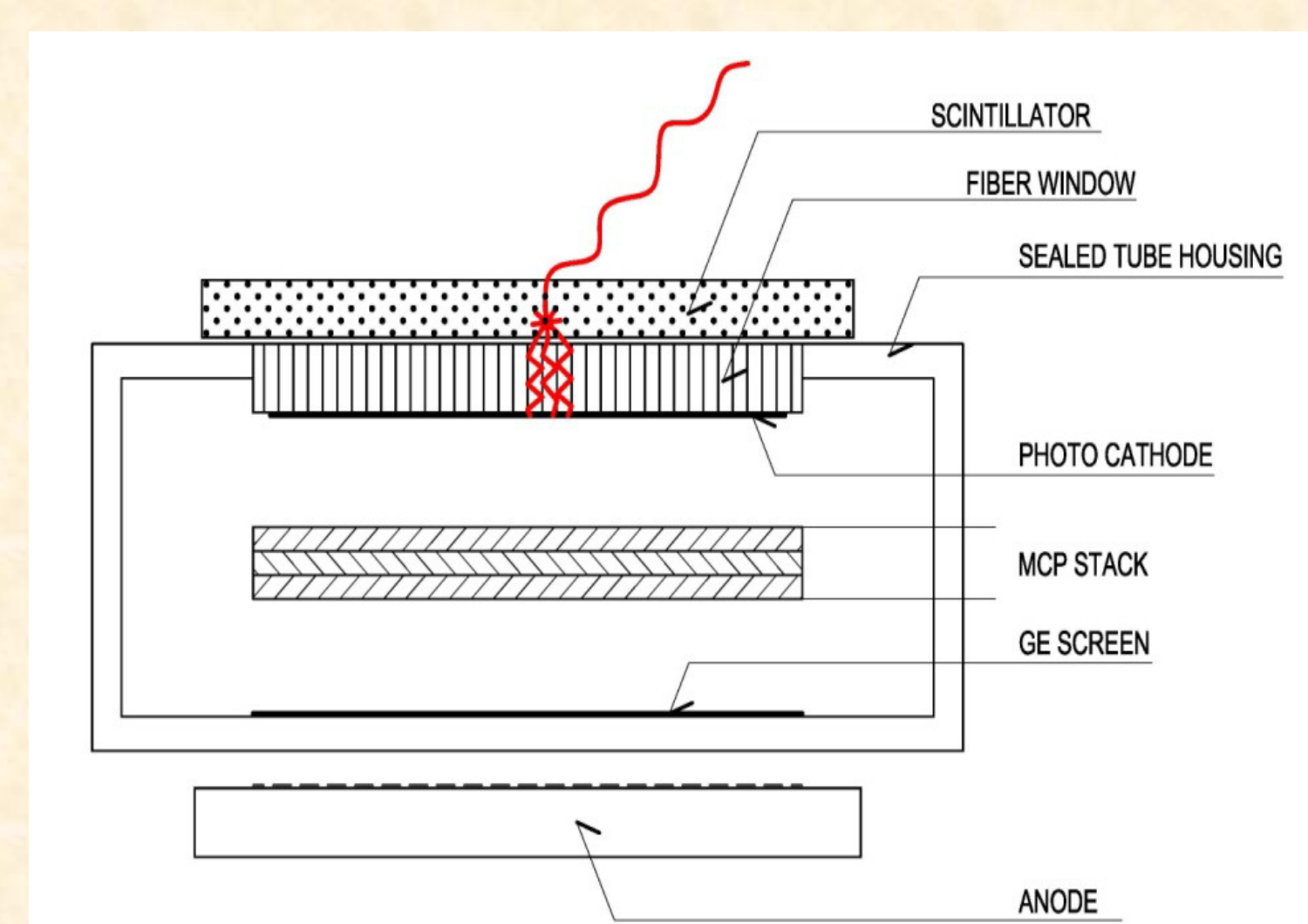
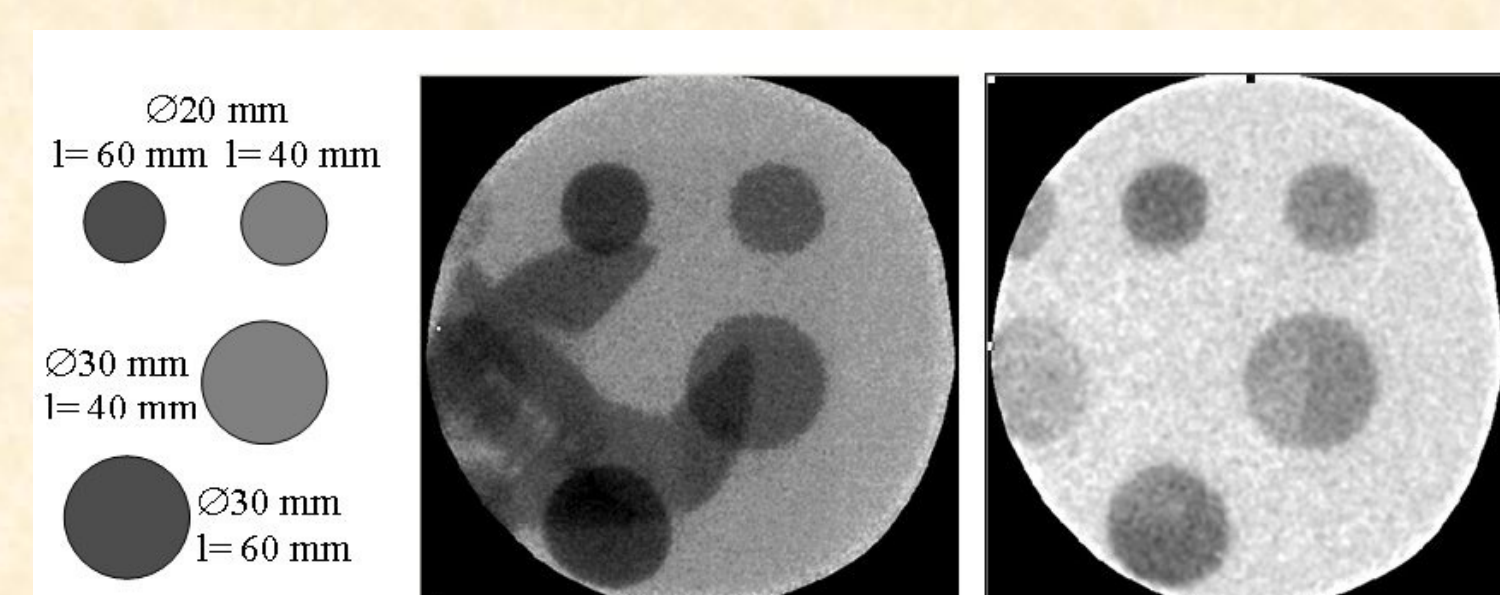
Such **RS-PMTs** can be used for **detecting** scintillation photons from a variety of **high-energetic particle** species (e.g. X-rays)



Application: Wide-field **FLIM** Microscopy



Application: **X-ray**, γ -ray, **fast neutron** radiography...



+ **thermal neutron** radiography with doped MCP