News from Krakow on Sci-rods

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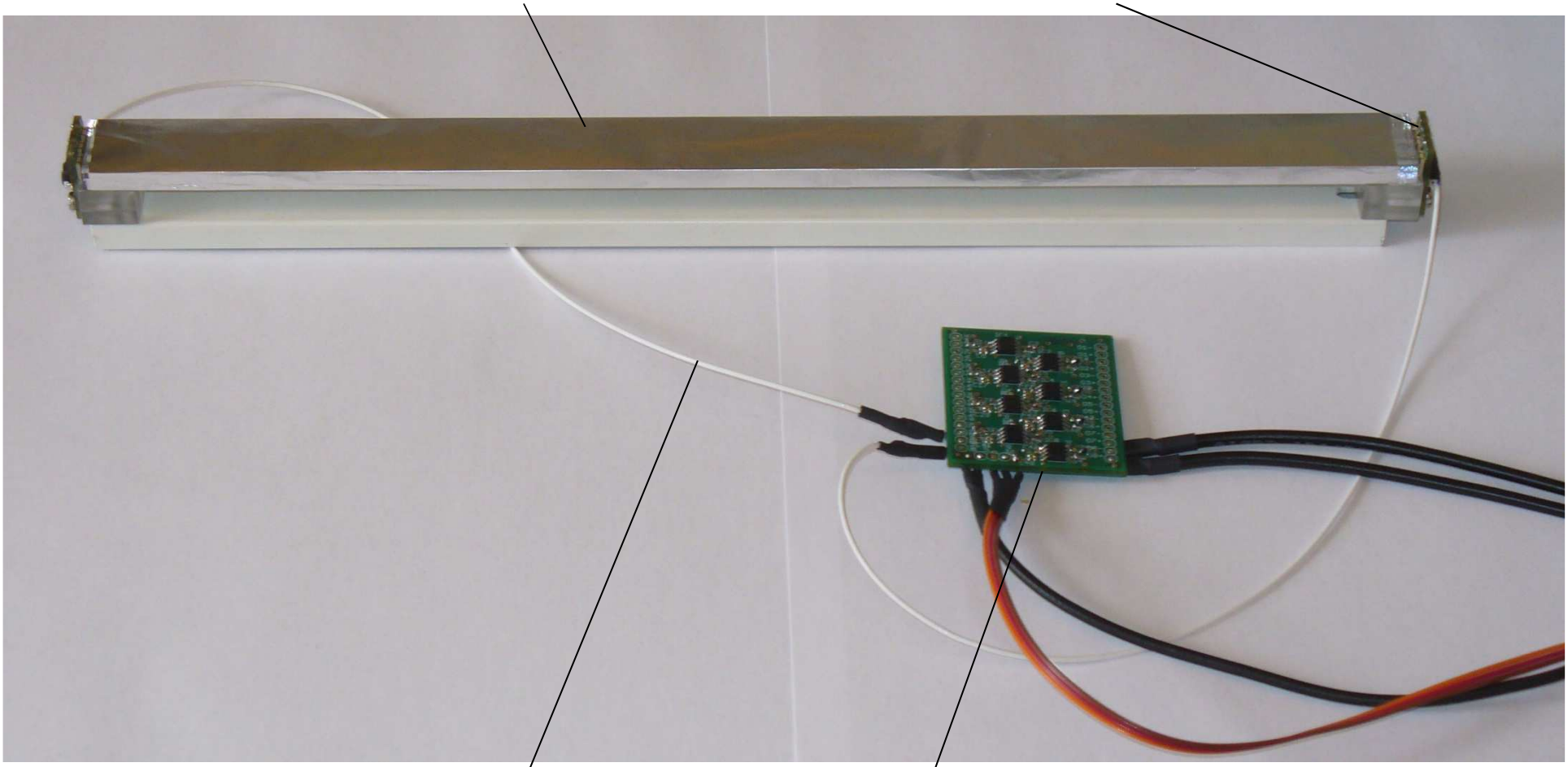
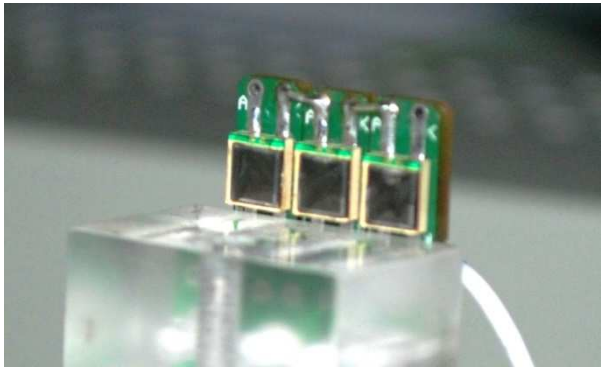
New prototype



Read out



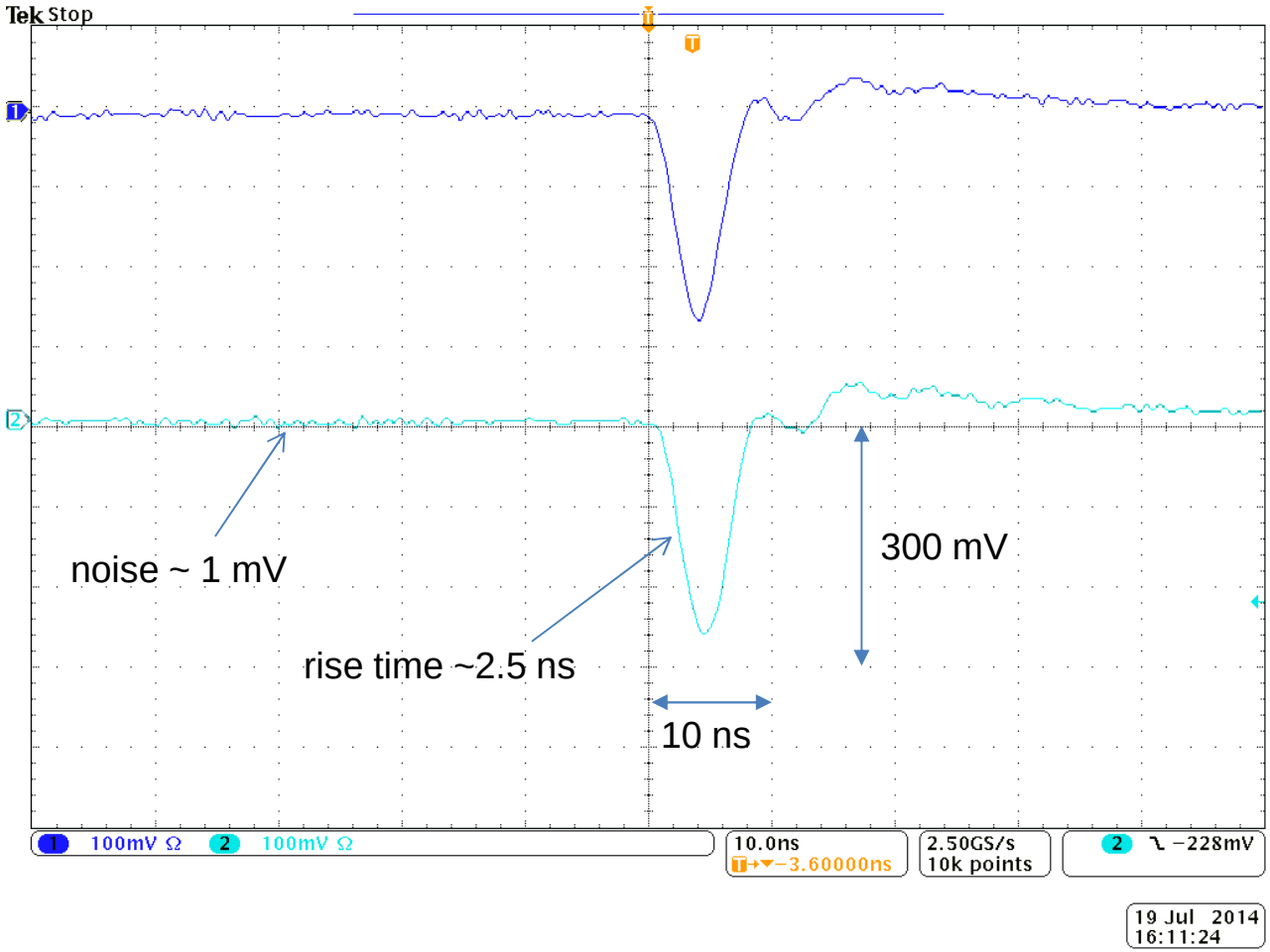
Active area: 3x 3mm x 3mm = **27 mm^2**
Sci-rod end face: 5mm x 20mm = **100 mm^2**

- Three SiPMs (Hamamatsu S12572-050P) connected in series, V_{op} = 3x 67 V = 201 V,
  advantage: shorter pulses, faster rise time compared to parallel connection or to single SiPM

- Preamps placed outside active area – connections from SiPMs to preamps are done with long, thin concentric cables

(solutions adopted from P. W. Cattaneo et al., arXiv:1402.1404v1)

Pulses with electrons from ^{90}Sr



We have started measurements of time resolution

Concept of TOF hodoscope

Two layers of Sci-Rods shifted by half of rod width and length:

- easy relative calibration of the rods
- better time resolution compared to single layer