

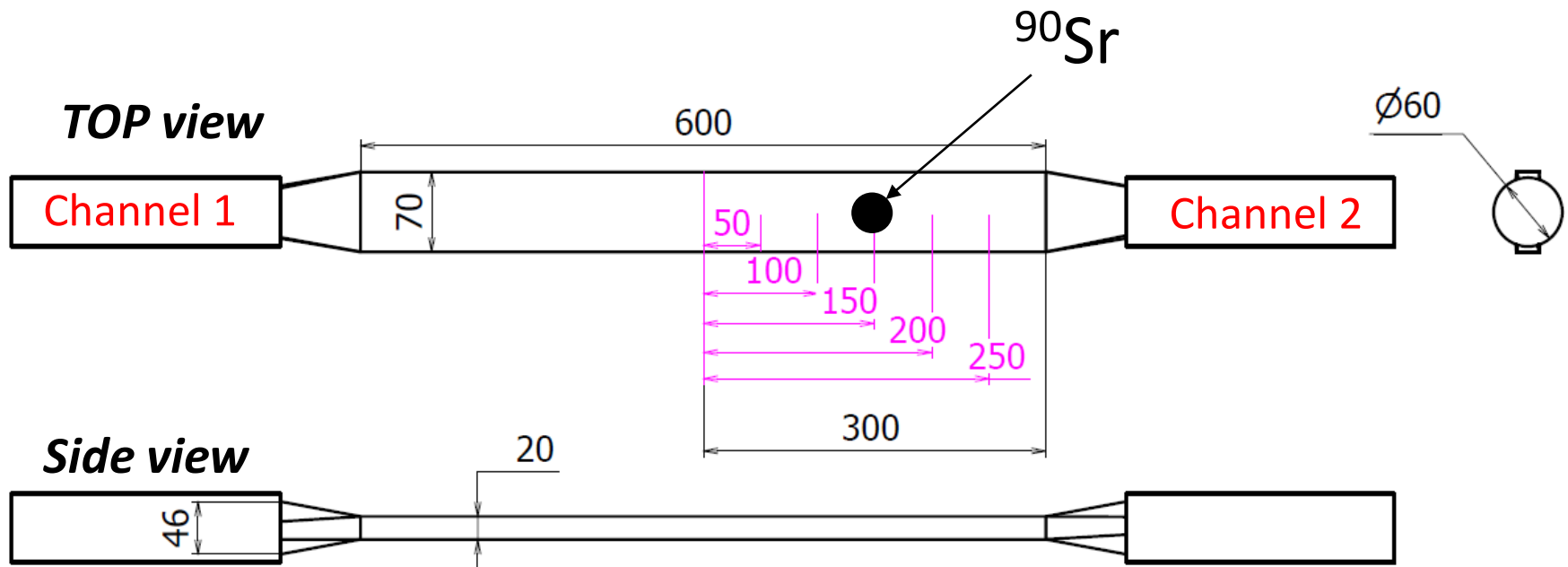
Speed of light in scintillator (S-2S TOF detector)

京都大学
KYOTO UNIVERSITY

Toshiyuki Gogami

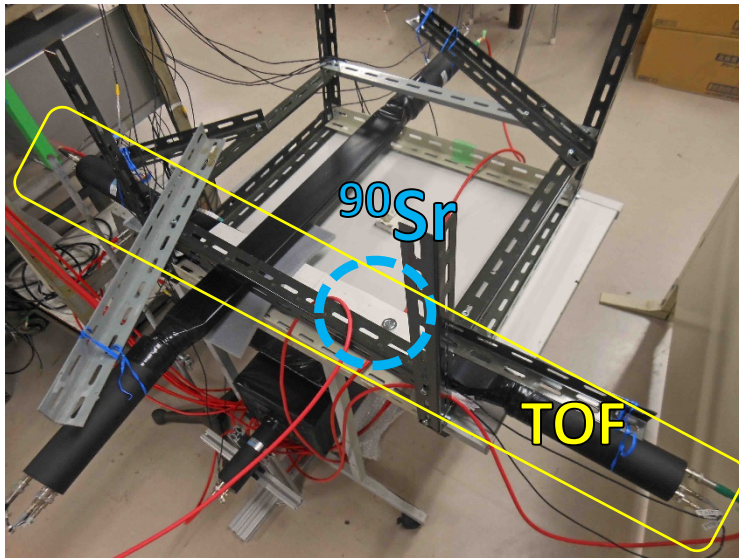
2014/10/31

Experimental setup

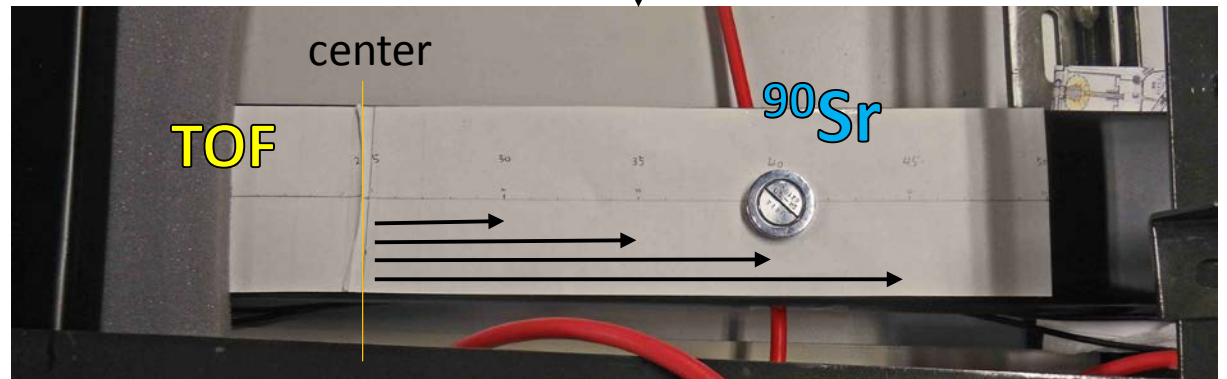


Measured the time difference between signals from two PMTs.

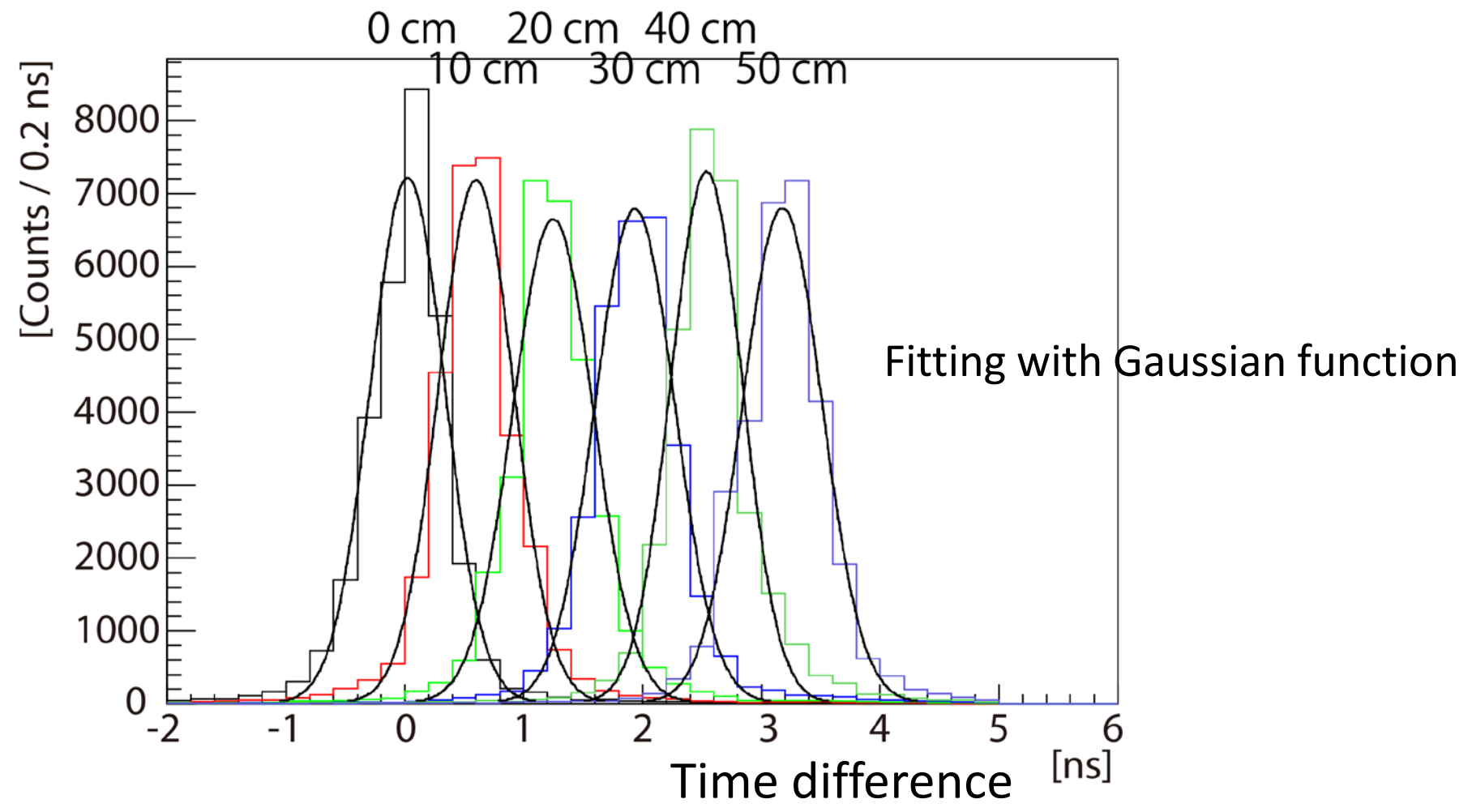
Experimental setup (Photograph)



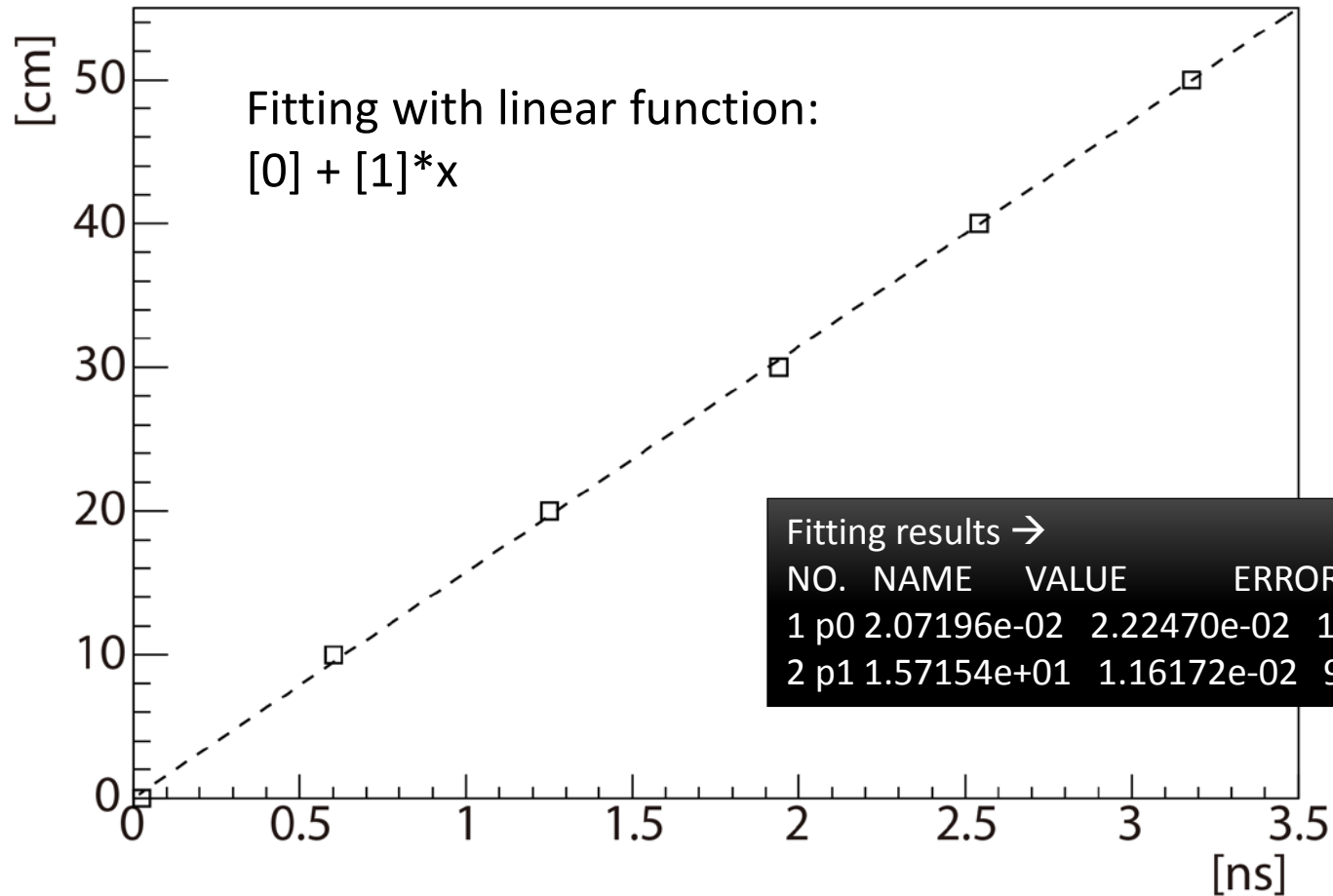
ZOOM



Time difference between two PMT signals



Results



The effective speed of light in TOF detector:

$$(1.57 \pm 0.01) \times 10^8 \text{ [m/s]}$$

*3F experimental room in Kyoto Univ.
2014/10/31*

