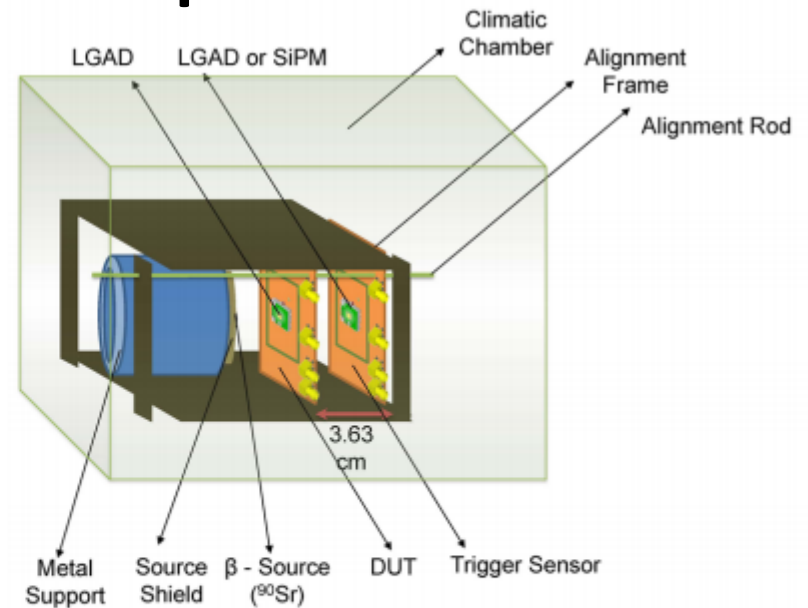


# Timing resolution measurements

# Timing setup

## $^{90}\text{Sr}$ $\beta$ -source Set-up:

DUT LGAD between source and trigger plane  
 Trigger: either known LGAD or quartz/SiPM  
 Climatic chamber allows operation between -30C and +20C



## Beam Tests:

Torino/UCSC Summer 2016  
 HGTD CERN Fall 2016  
 US LGAD R&D group FNAL May 2017

## LGAD tested:

CNM run 9088: 3 doping concentration, 1 mm pads, 2x2 arrays (2x2 and 3x3 mm<sup>2</sup>)  
 HPK run ECX20840: 4 doping Concentrations, 1mm pads (3 GR configurations) , 2x2 arrays, 3x3 mm<sup>2</sup>

