

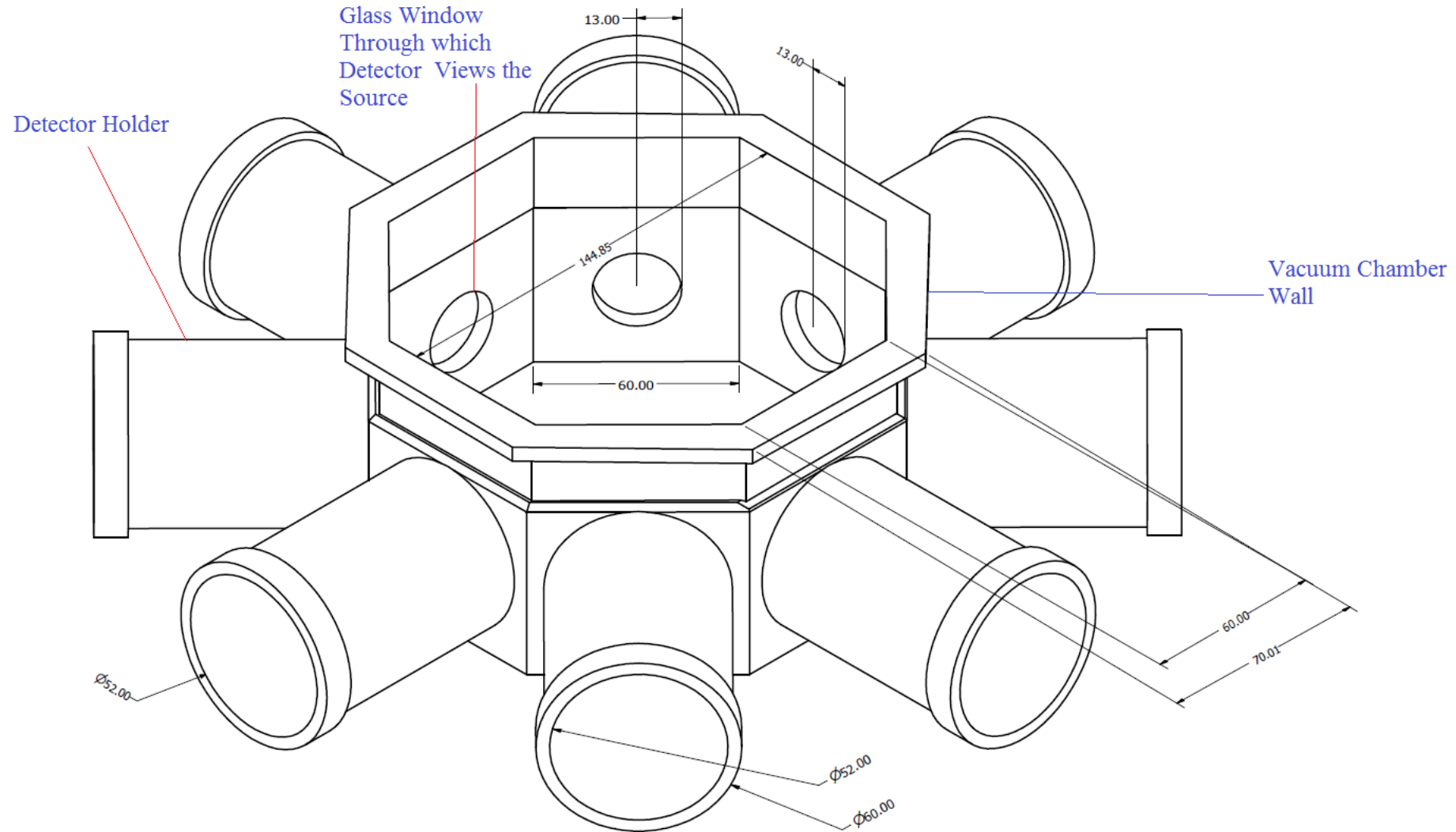
# **The Shielding Effect of Materials used to Build the Cryostat System**

**I.J Lugendo,**

**Lab Meeting, 15/12/2016**

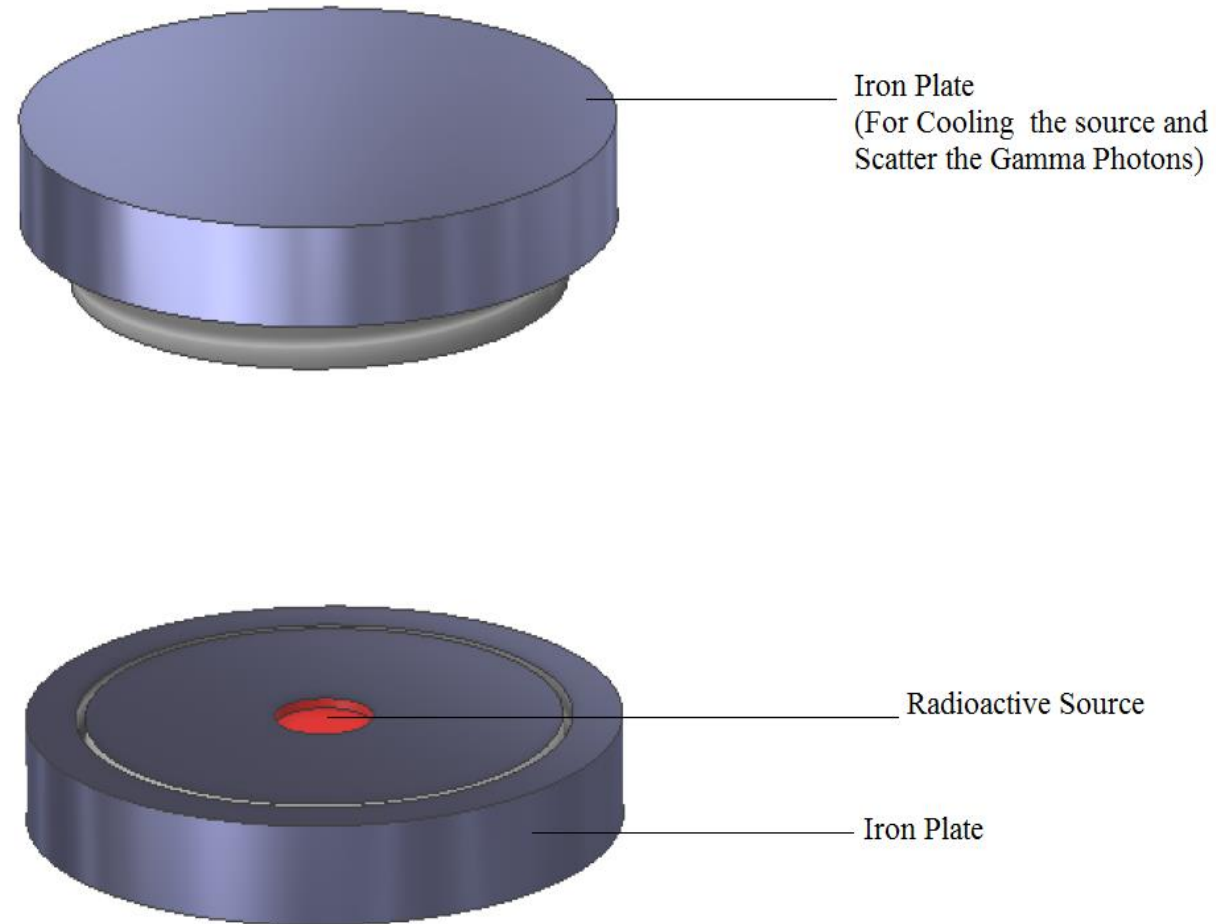
# The Designed Detection System

2

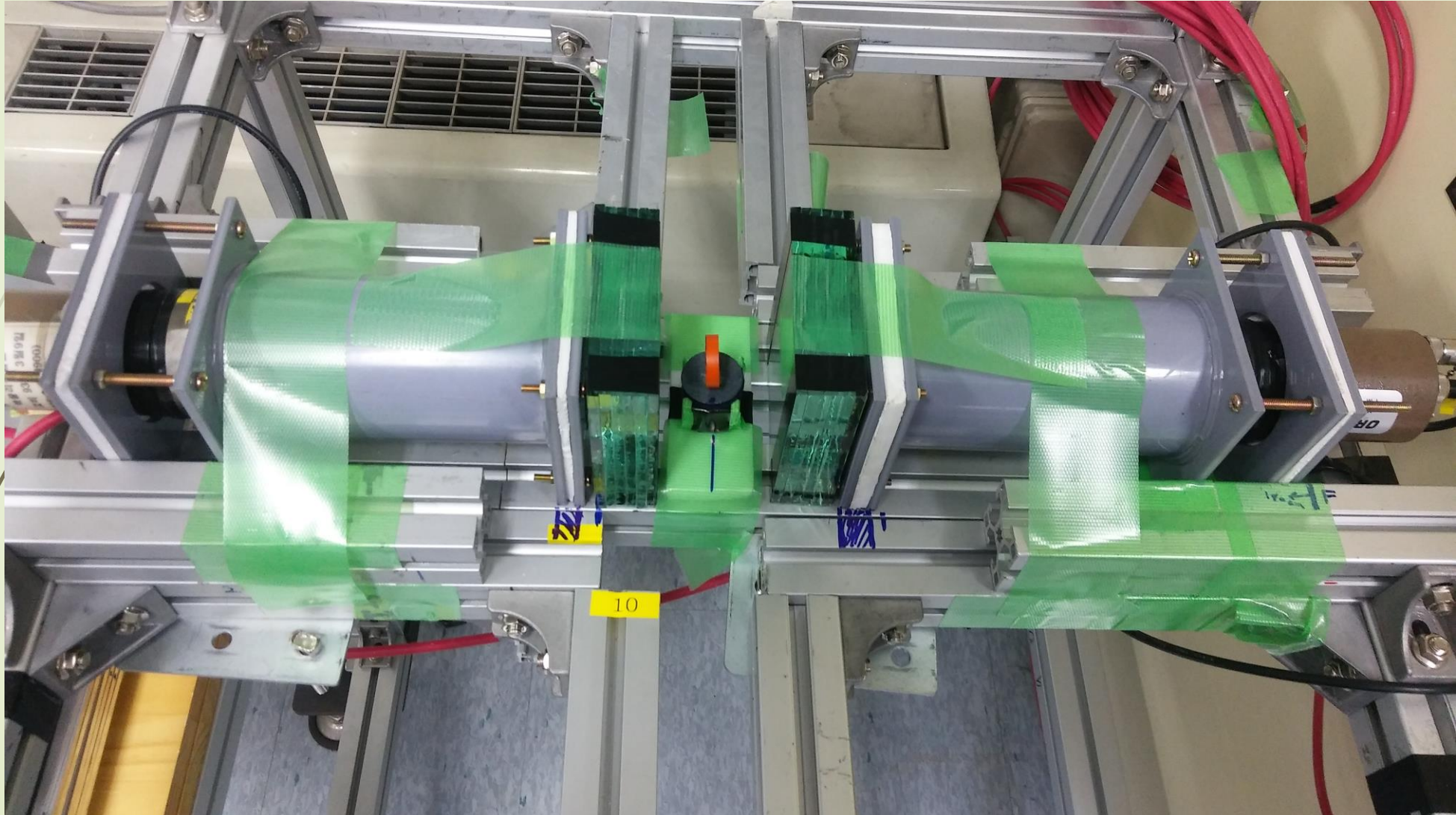


# The Source Container

3



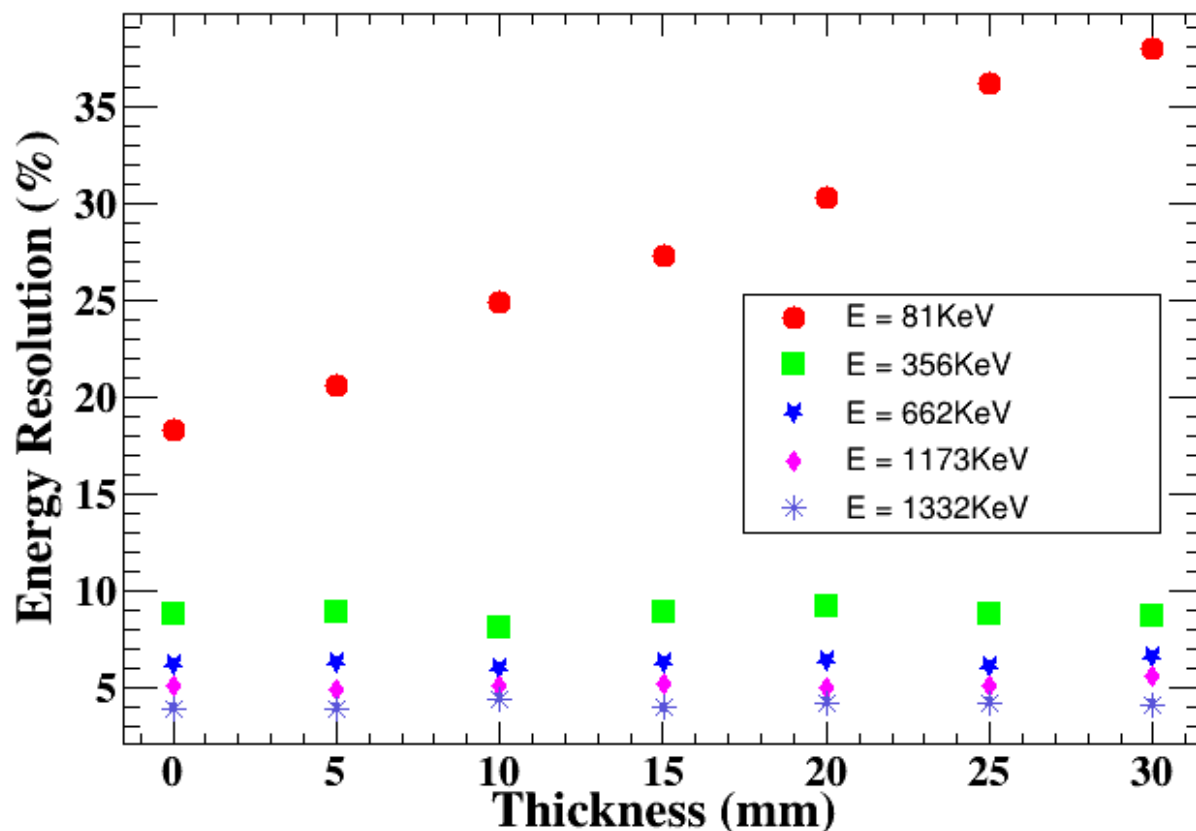
# Experiment Set Up



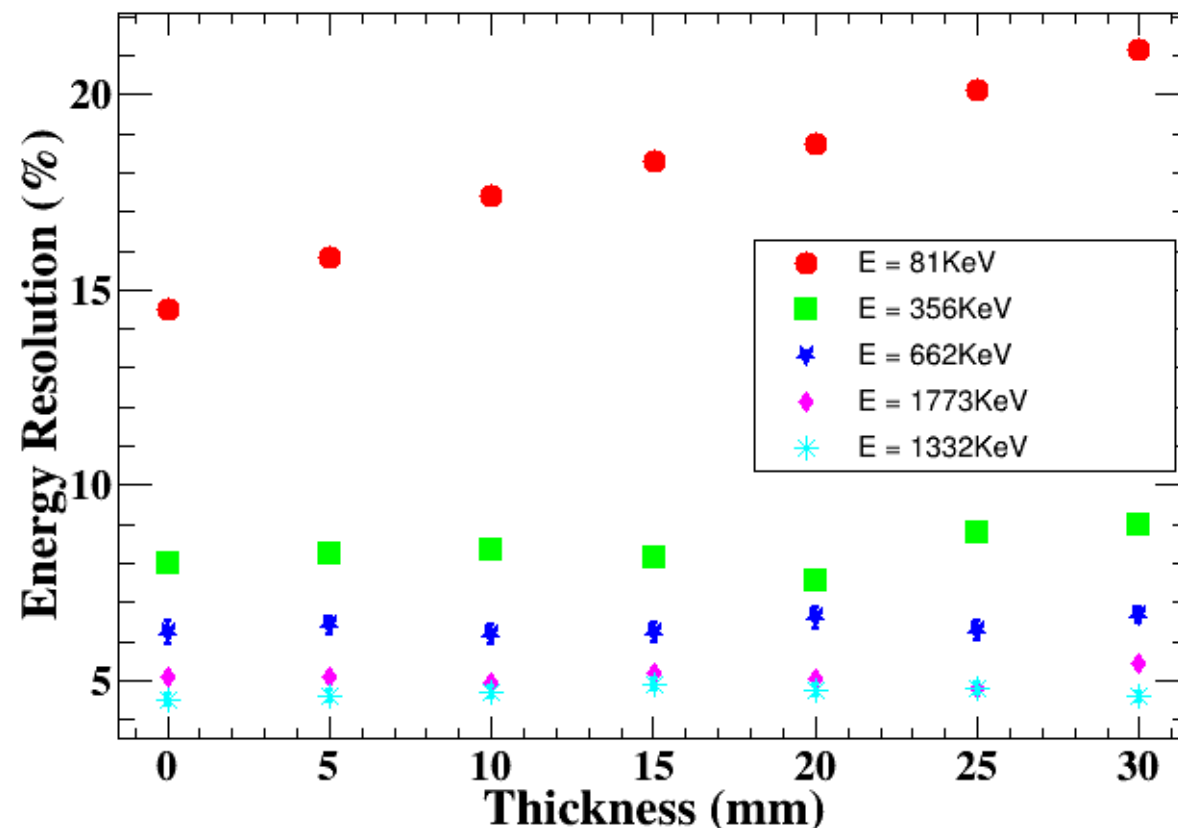


# The Effect on Energy Resolution

## Energy Resolution by D3

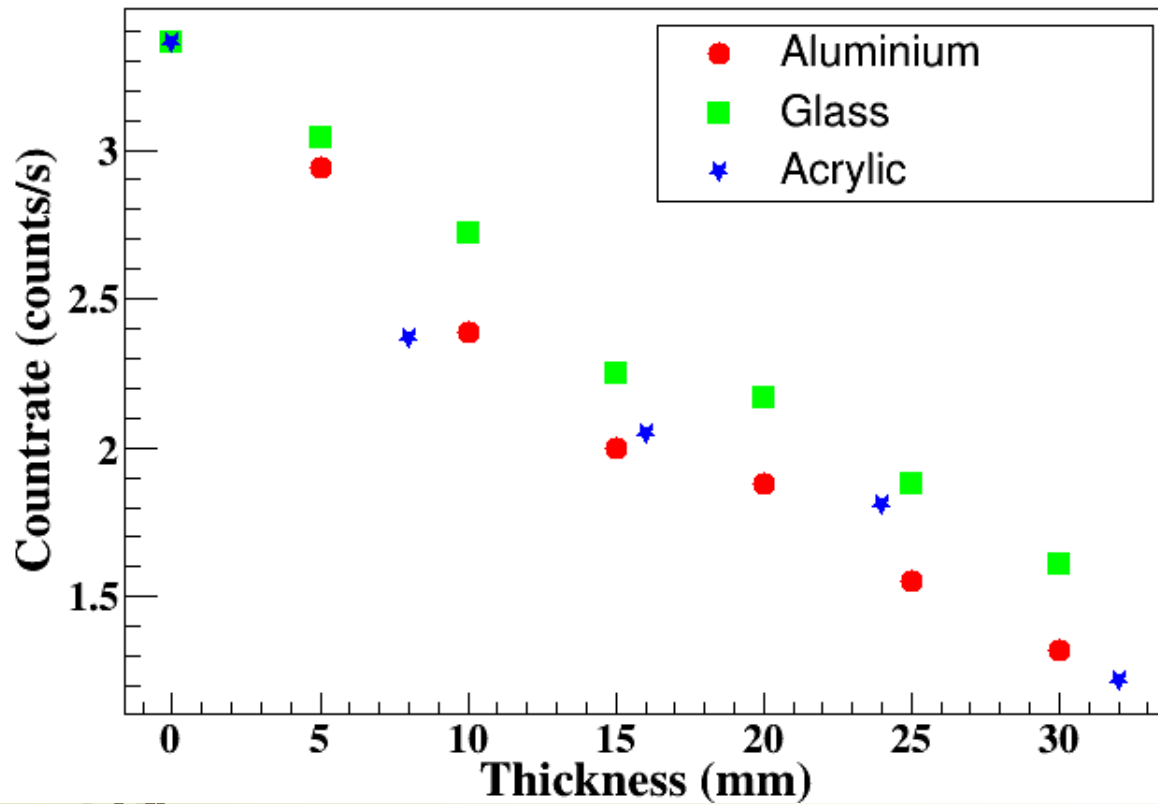


## Energy Resolution by D4

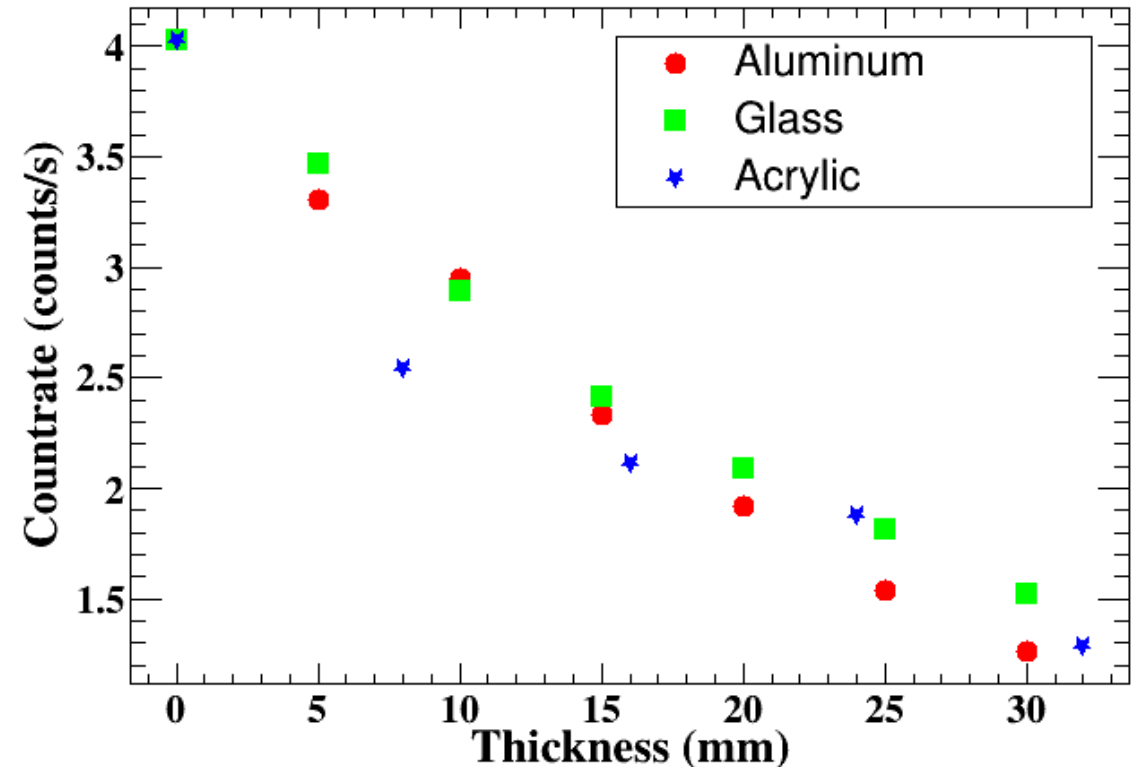


# The Effect on Energy Detection

Effect of Shielding on Detection of 81 keV Gamma by D3

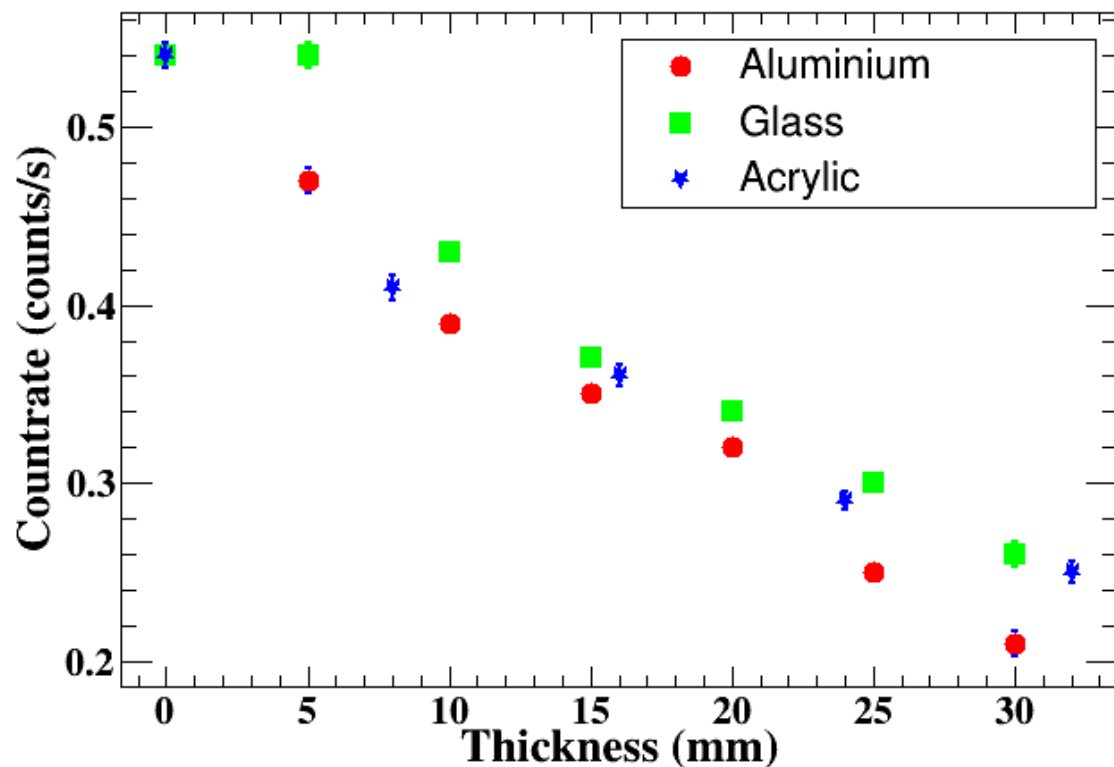


Effect of Shielding on Detection of 81keV Gamma by D4

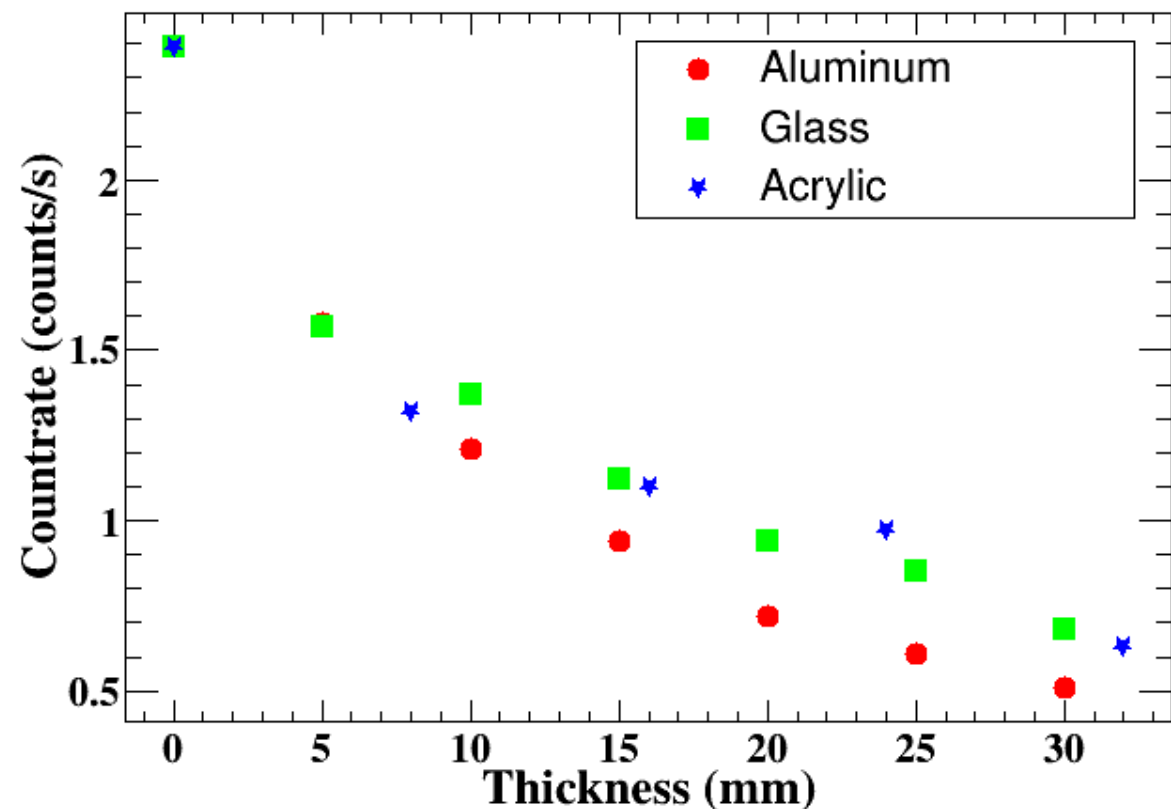


# The Effect on Energy Detection (cont..)

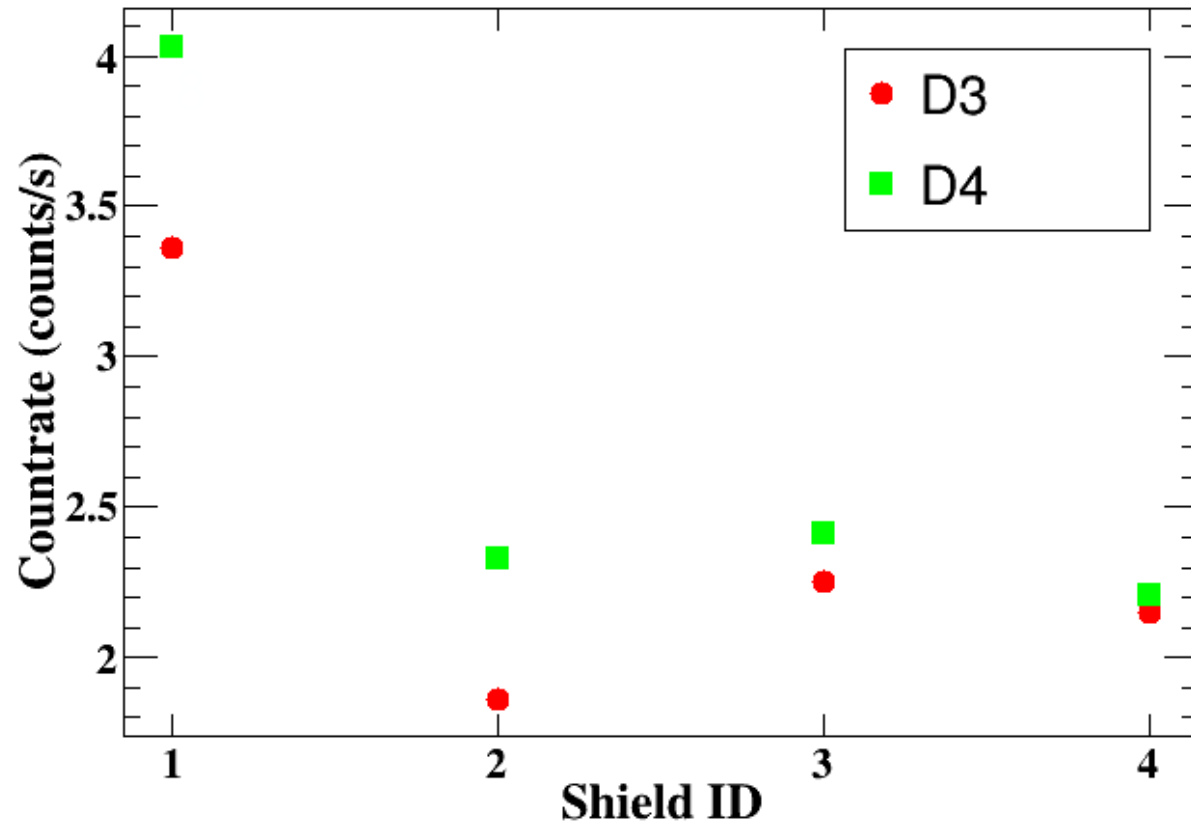
Effect of Shielding on Detection of 356keV Gamma by D3



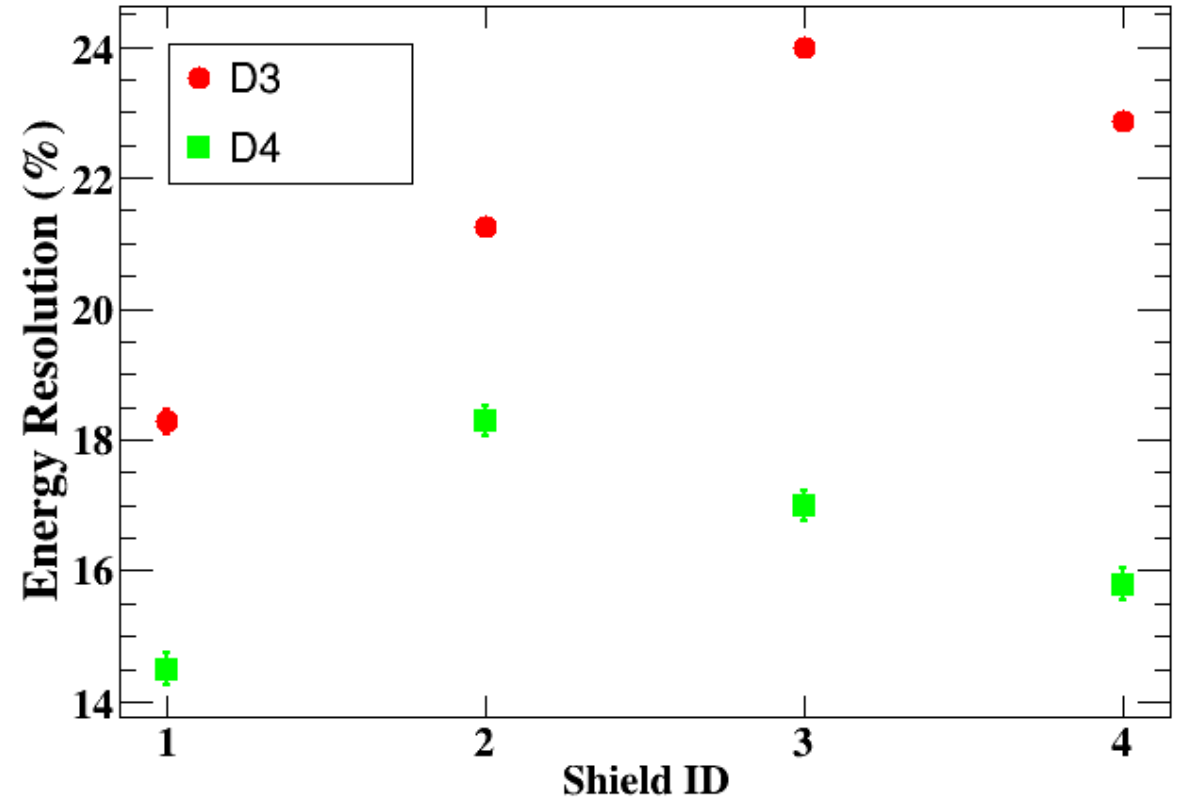
Effect of Shielding on Detection of 356keV Gamma by D4



81 keV Gamma Detection



81keV Gamma Detection



**KEY;**

**1 = Air, 2 = Aluminum, 3 = Glass, 4 = Acrylic**