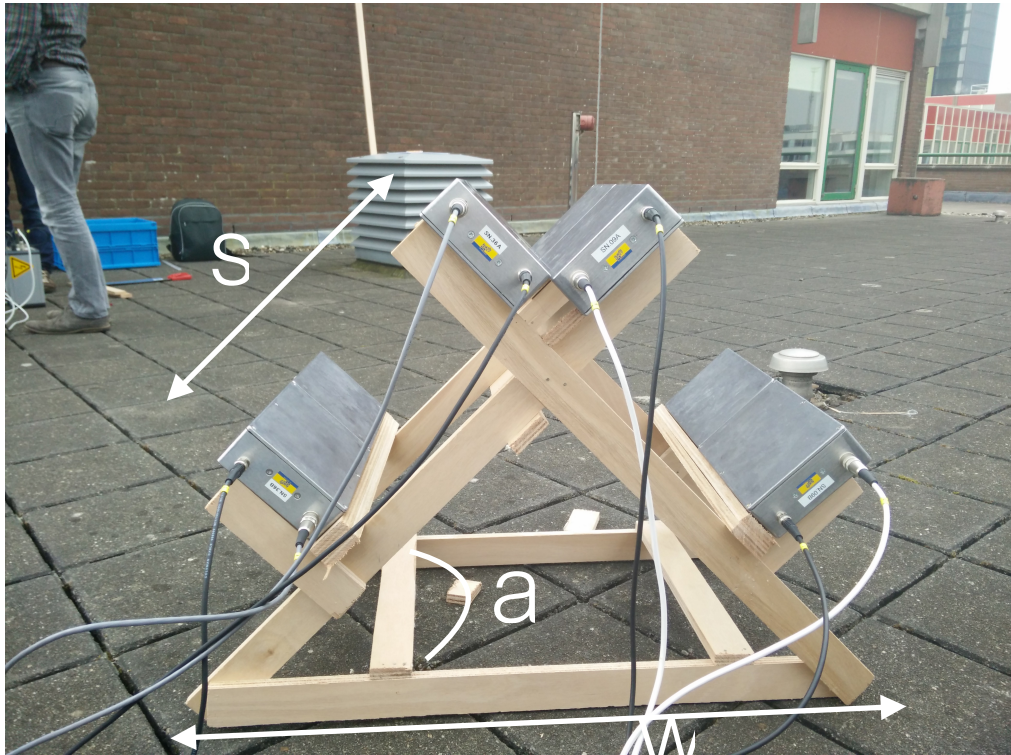


Group 6

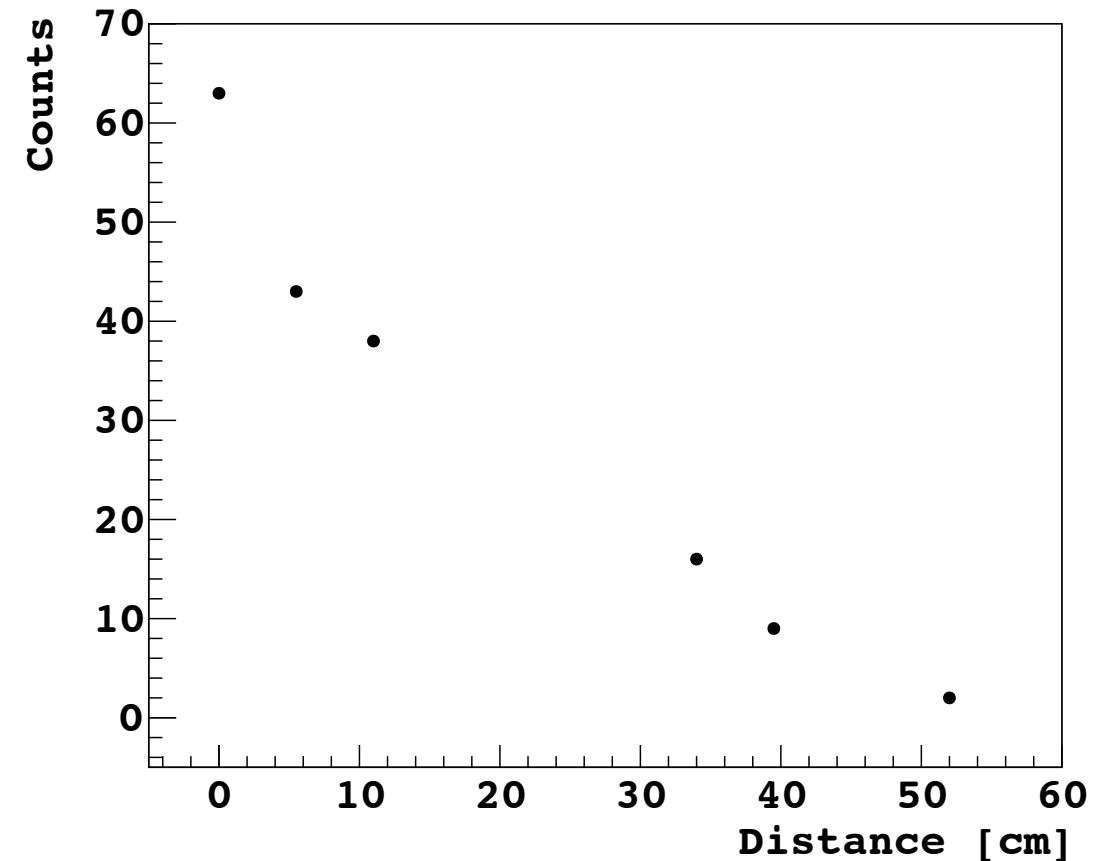
Intermediate Report

• Setup



- $a=45\text{deg}$, $s=35\text{cm}$, $w=80\text{cm}$

• Lab Measurement for Rates



Side Hits : 12 ± 3 counts / 30s

Measuring False Coincidence : 24 ± 5 counts / 30s

• Measurement #1

- Duration: 2h (13.05-15.05)
 - Facing W (SN036): 1448 ± 38 counts ($f \approx 0.201\text{Hz}$)
 - Facing E (SN09) : 1672 ± 40 counts ($f \approx 0.232\text{ Hz}$)

$$E-W = 3.4\text{mHz} \pm 5\text{mHz}/7\text{mHz}$$

• Measurement #2: Repeating the experiment changing E/W to account for efficiency dependence

- Duration: 55m (15.10-16.05)
 - Facing W (SN09) : 759 ± 27 counts ($f \approx 0.230\text{ Hz}$)
 - Facing E (SN036) : 675 ± 26 counts ($f \approx 0.205\text{ Hz}$)

$$E-W = 2.2\text{mHz} \pm 6\text{mHz}/8\text{mHz}$$