Full title

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Supervisor: Prof. Supervisor

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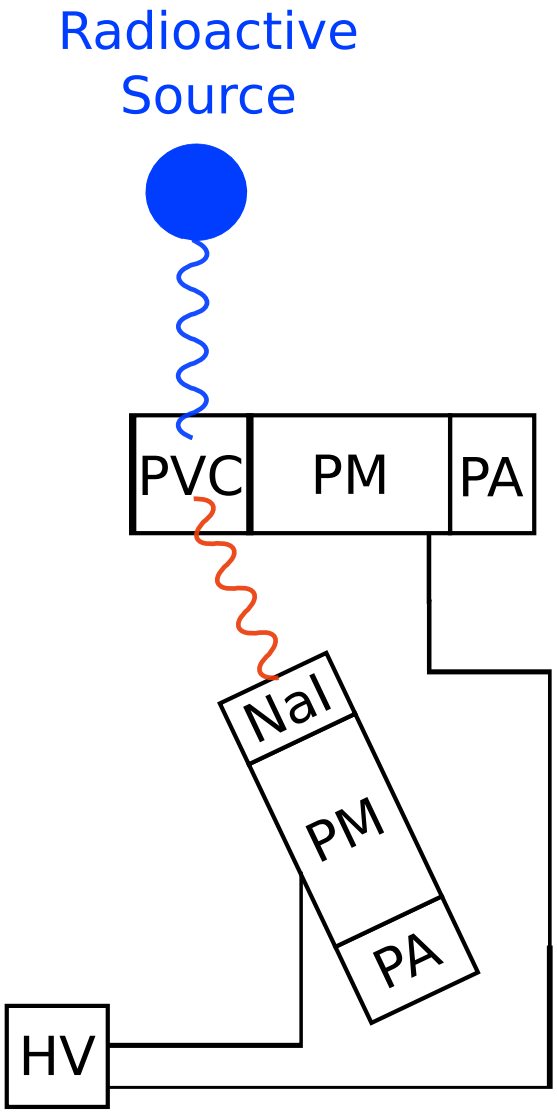
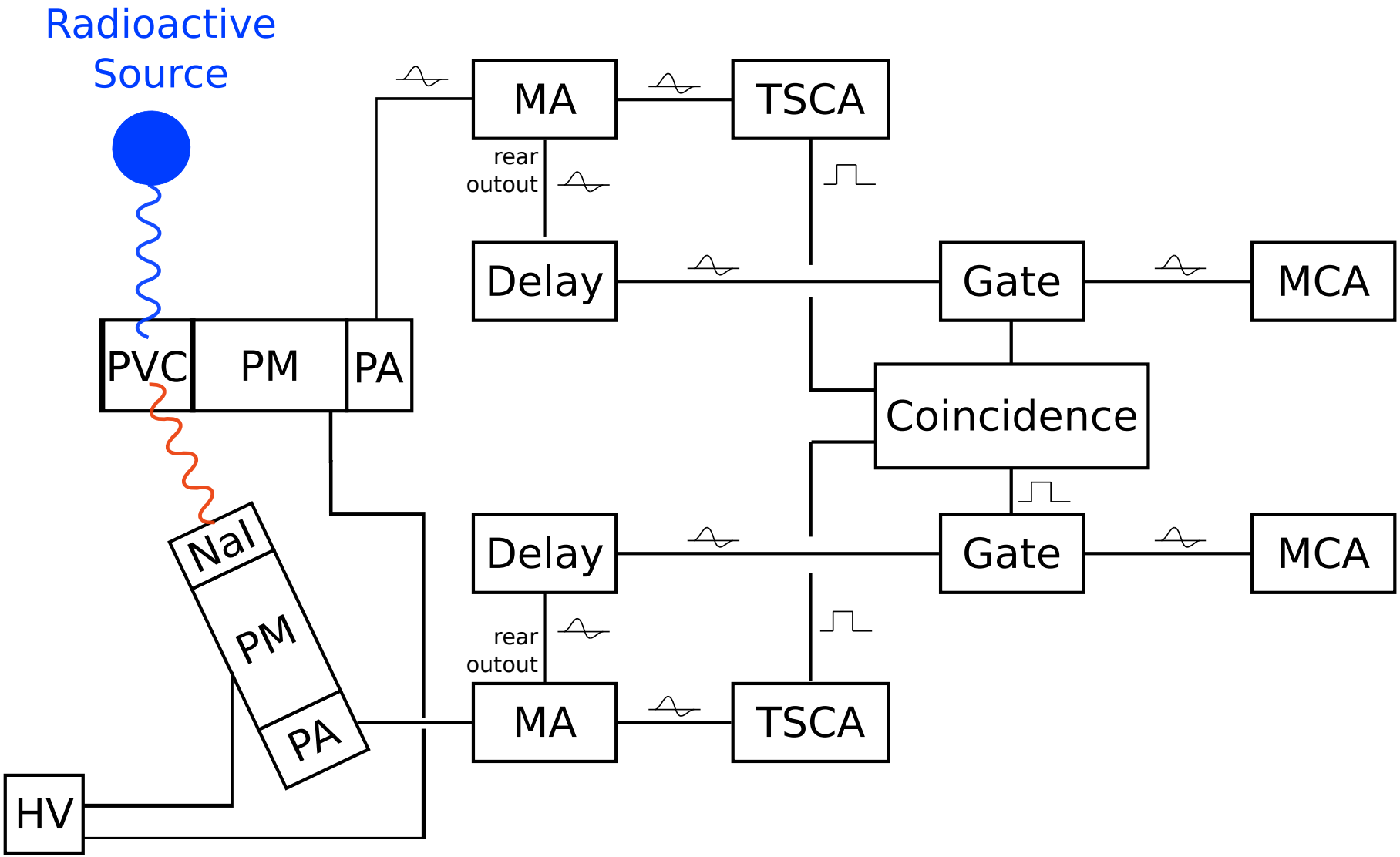
Setup 1



Setup 2


Radioactive
Source
MA
TSCA
rear
outout
Delay
Gate
MCA
PVC
PM
PA
Coincidence
NaI
PM
PA
Delay
Gate
MCA
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outout
MA
TSCA
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Formulas

Klein-Nishina Formula

$$\frac{\mathrm{d}\sigma_C}{\mathrm{d}E_{e,\mathrm{kin}}} = \frac{\alpha^2\lambda_e^2}{16\pi^3 m_e c^2}\frac{1}{a^2}\left(\frac{b^2}{a^2(a-b)^2} + \frac{(b-1)^2-1}{a(a-b)}\right) \tag{1}$$

with $a := E_\gamma / m_e c^2$
and $b := E_{e,\mathrm{kin}} / m_e c^2$

Table

Sample	Peak/Edge	E / keV	NaI / Channel	PVC / Channel
^{137}Cs	Photo	662	8040.59 ± 0.03	
	Compton	477	5720 ± 4	178.9 ± 0.3
	Backscatter	183	2510 ± 12	
^{22}Na	Photo	511	6347 ± 3	
	Compton	341	4000 ± 2000	108 ± 2
	Photo	1277	14180 ± 20	
	Compton	1064	12000 ± 4000	414 ± 4

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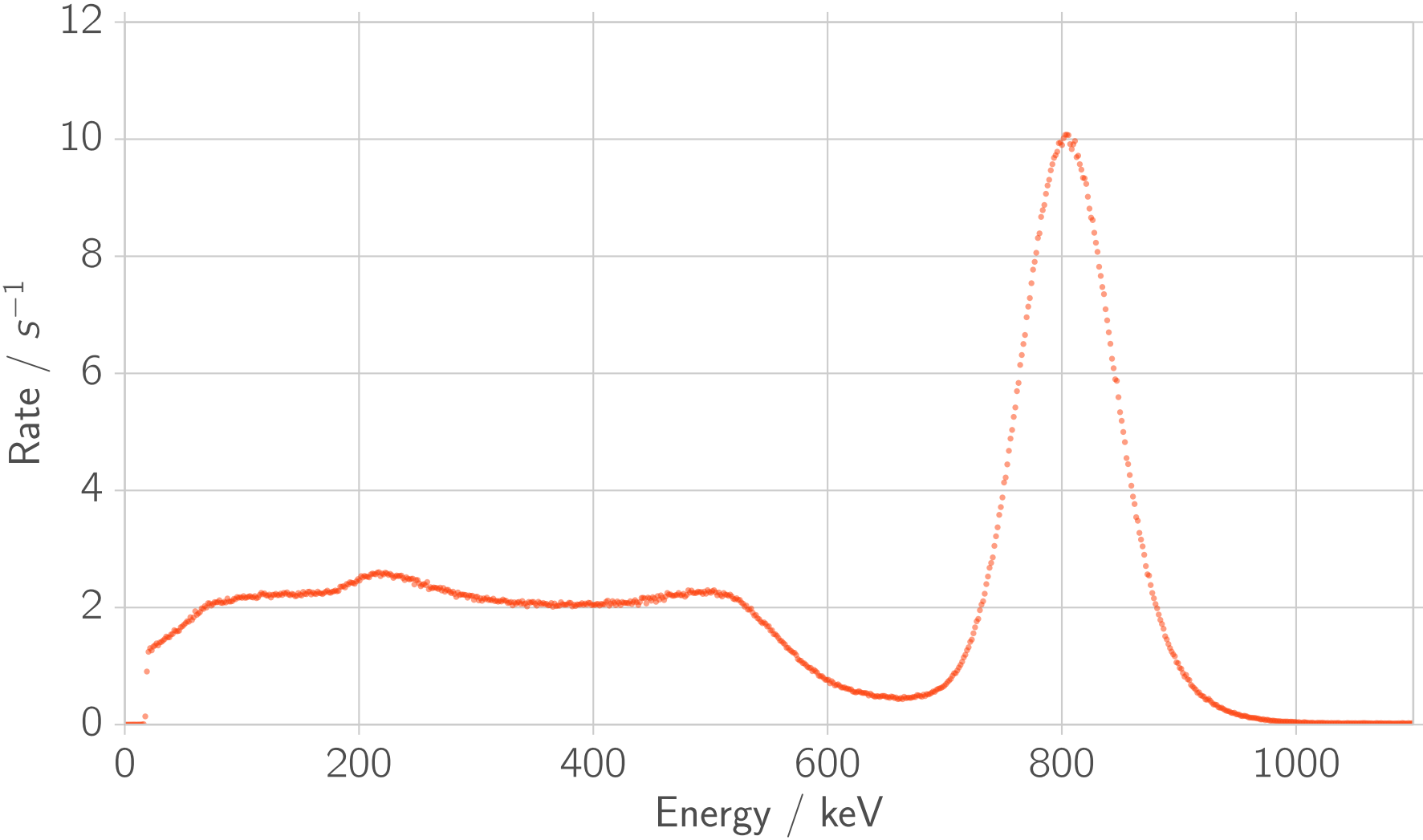
Figure