

Compton and His Scattering

Friedrich Schüßler, Volker Karle

Adviser: Kilian Rosbach

April 20, 2015

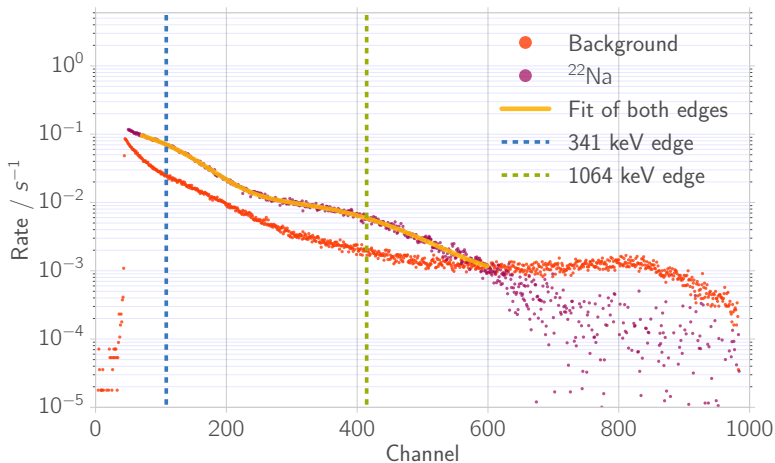
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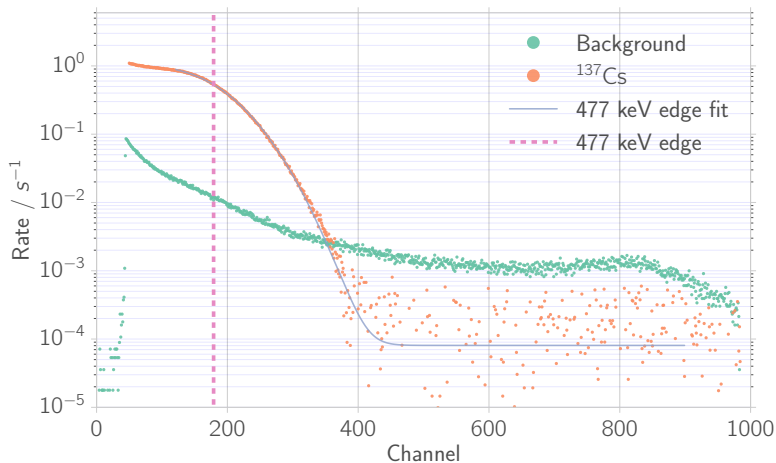
Calibration of PS scintillator

Calibration of Na scintillator

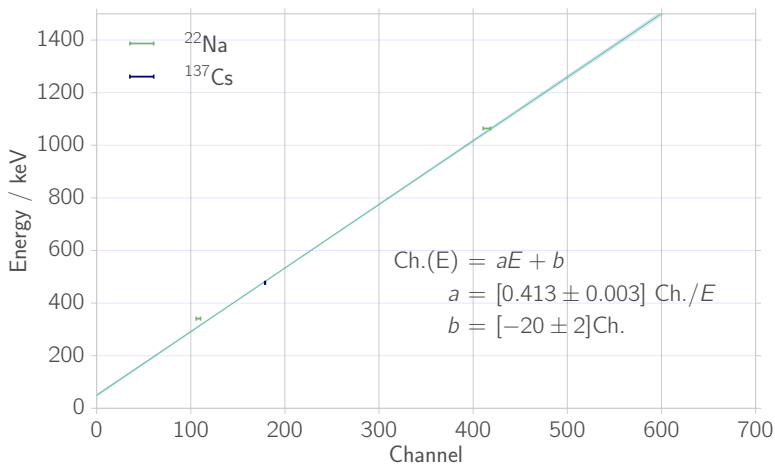
Energy Conservation

^{22}Na sample (measurement time 16.5h)



^{137}Cs sample (measurement time 6h)

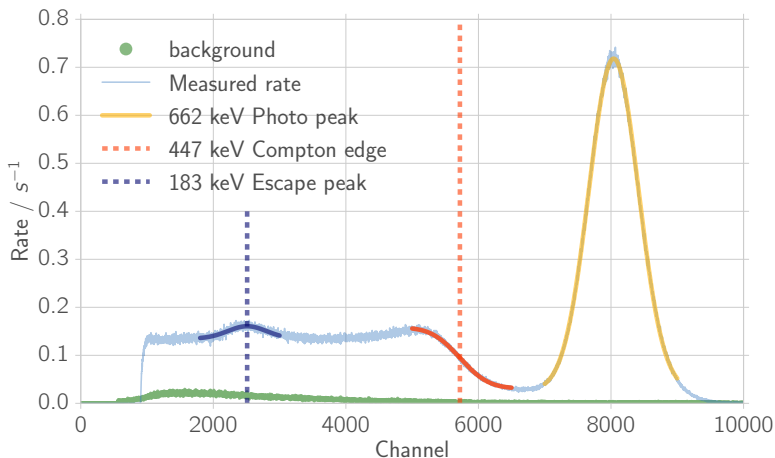
Linear fit



Peaks and fitting results of ^{137}Cs

Name	Energy	Channel
Photo peak	662 keV	8040.59 ± 0.03
Compton edge	477 keV	5720 ± 4
Escape peak	183 keV	2510 ± 12

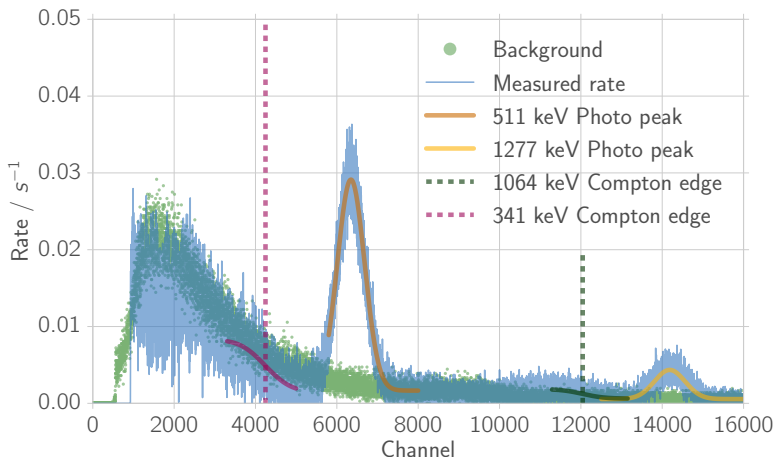
^{137}Cs sample (measurement time 2.7h)



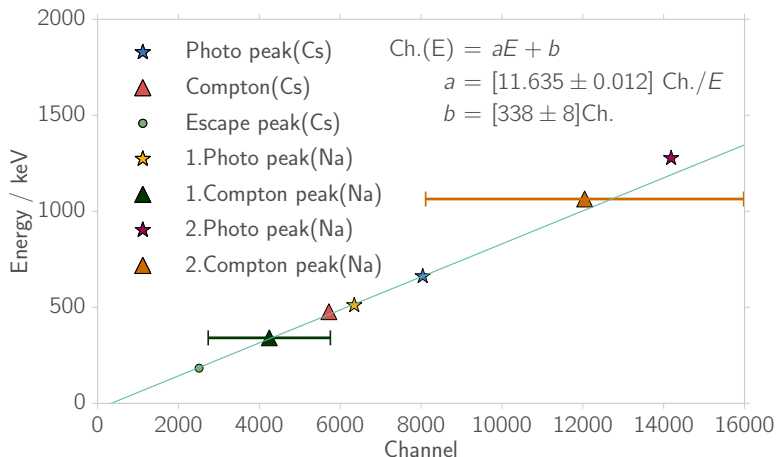
Peaks and fitting results of ^{22}Na

Name	Energy	Channel
1. Photo peak	511 keV	6347 ± 3
2. Photo peak	1277 keV	14180 ± 20
1. Compton edge	341 keV	4000 ± 2000
2. Compton edge	1064 keV	12000 ± 4000

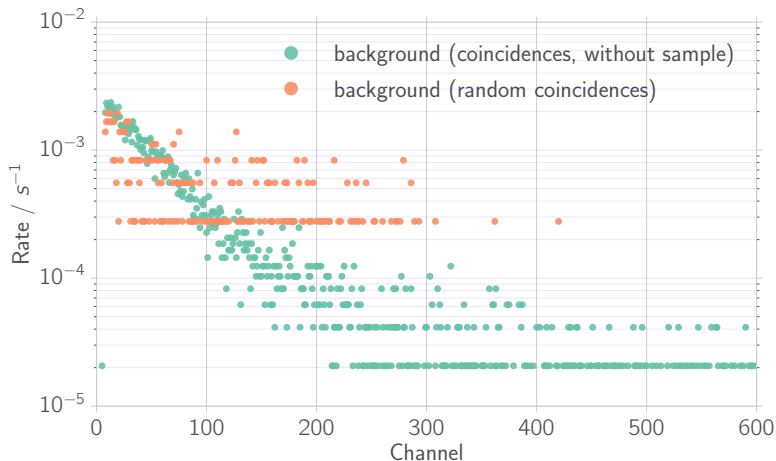
^{22}Na sample (measurement time about 1h)



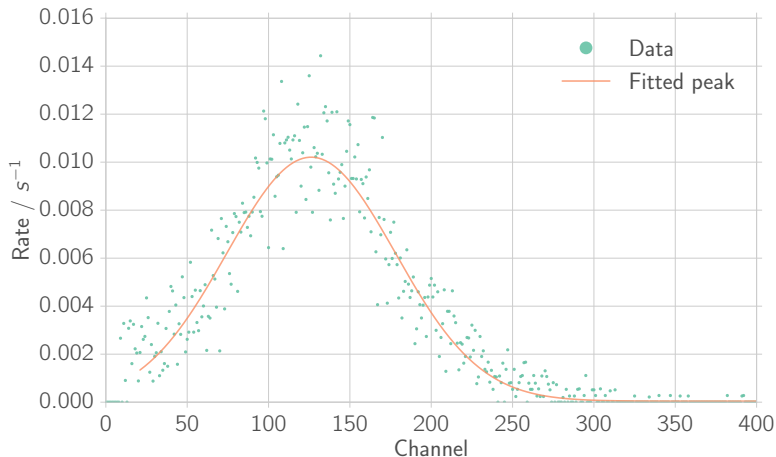
Linear fit



Background of the PS scintillator with coincidence and random coincidences (Measur. time 13.4h and 1h)



Energy of electrons: Rate of coincident events of PS scintillator at angle of $\theta = 90^\circ$



Energy of electrons: Rate of coincident events of PS scintillator at angle of $\theta = 15^\circ$

