

Física médica

TELESCOPIO COMPTON Y SUS APLICACIONES

Diana Andrés

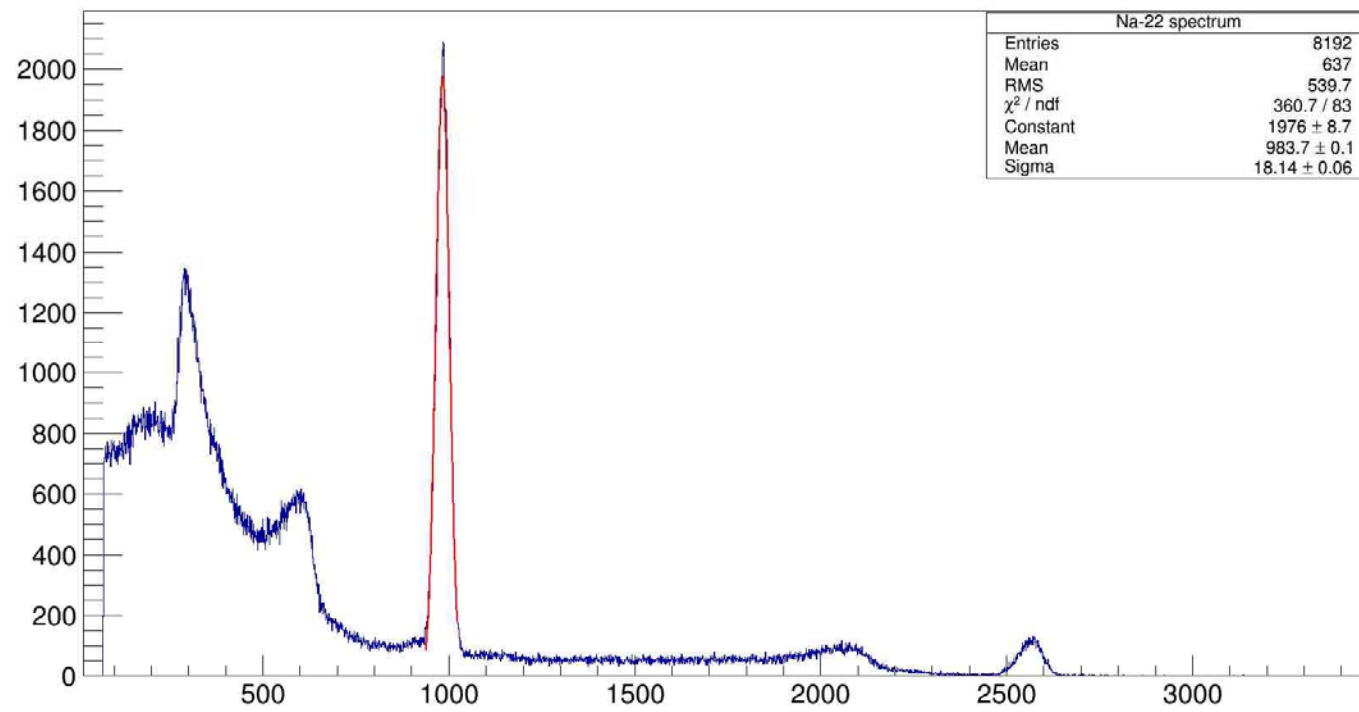
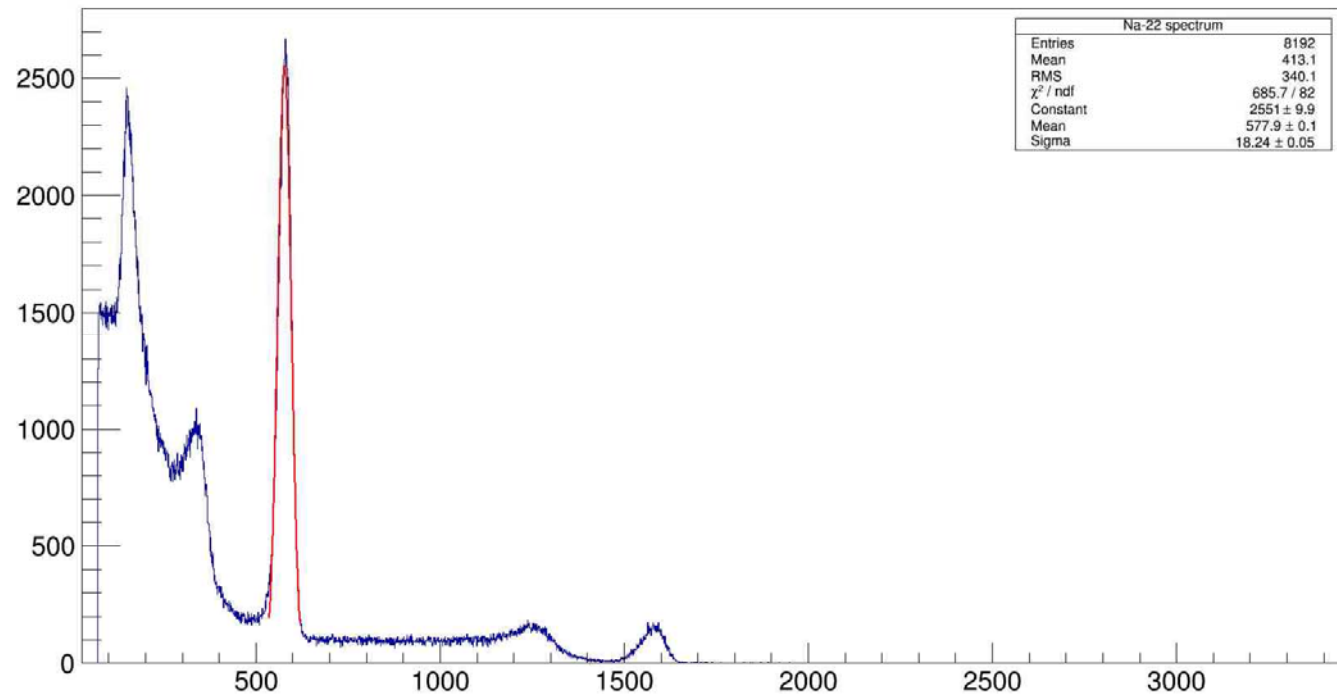
Tutor: John Barrio

IFIC Summer Student Programme - 2016

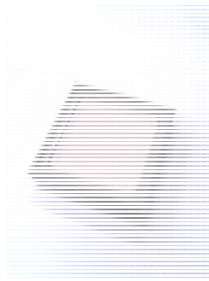
Espectroscopía



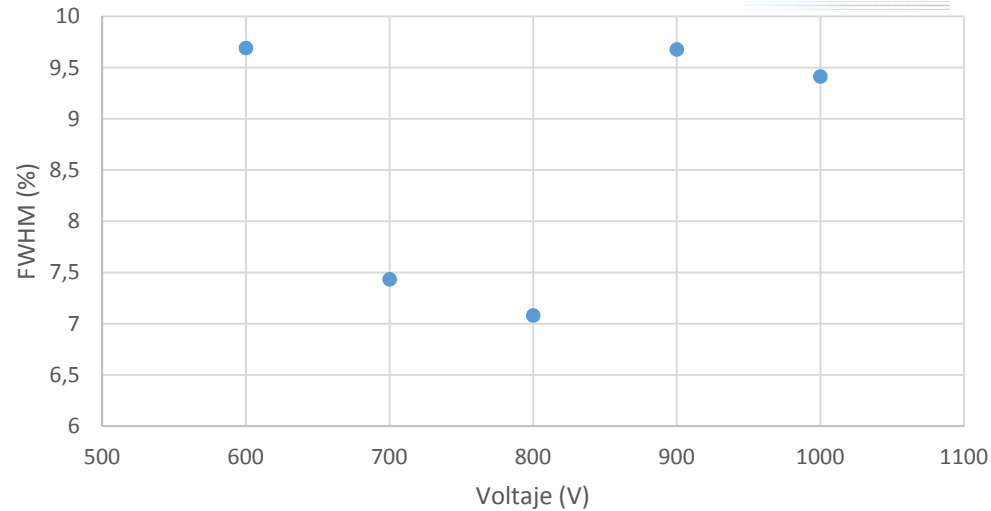
Na-22 spectrum



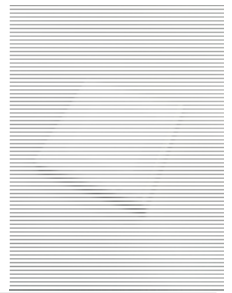
Bromuro de Cerio



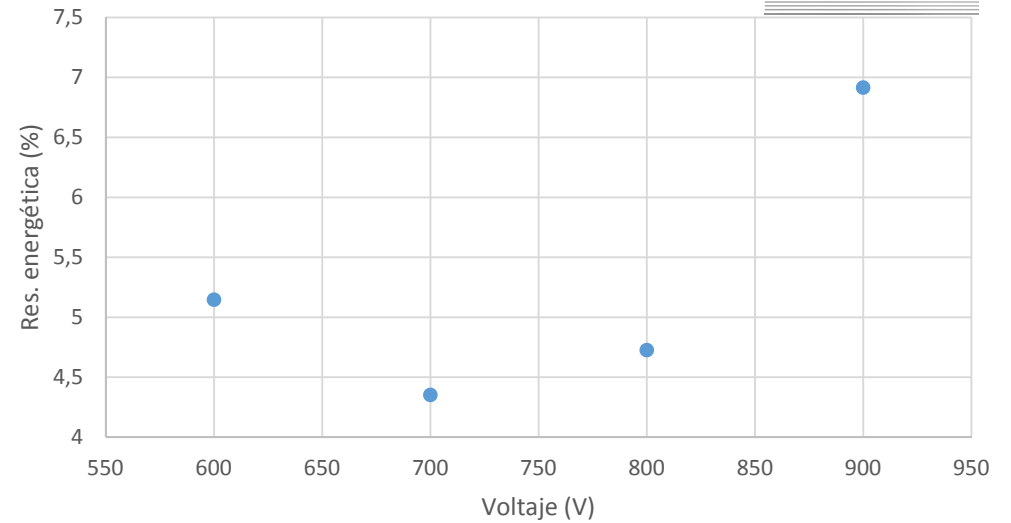
V vs FWHM (fotopico 511)



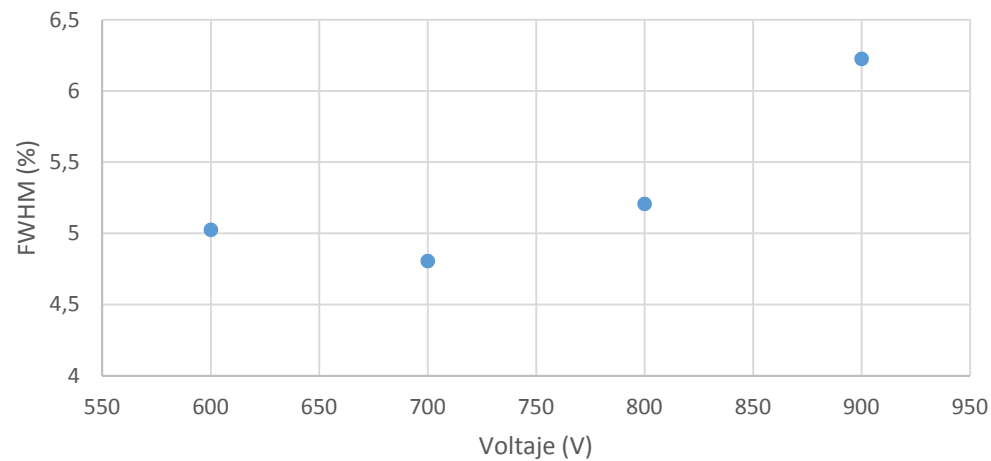
Bromuro de Lantano



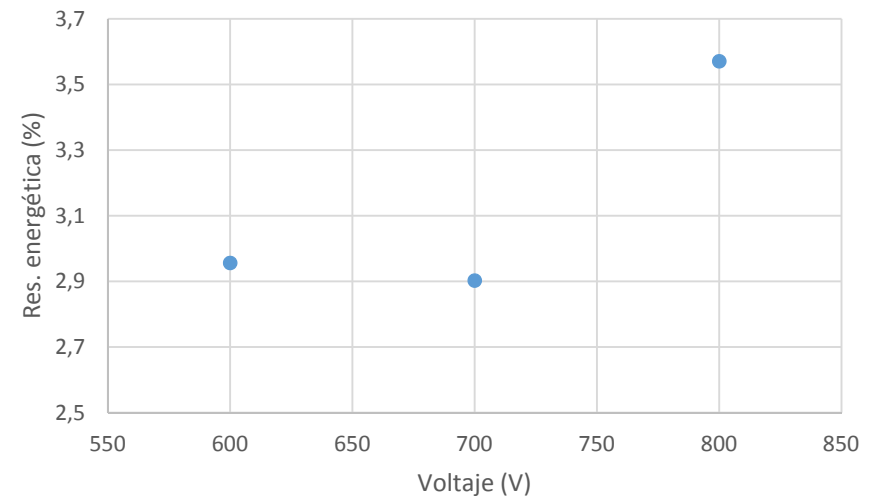
V vs FWHM (fotopico 511)



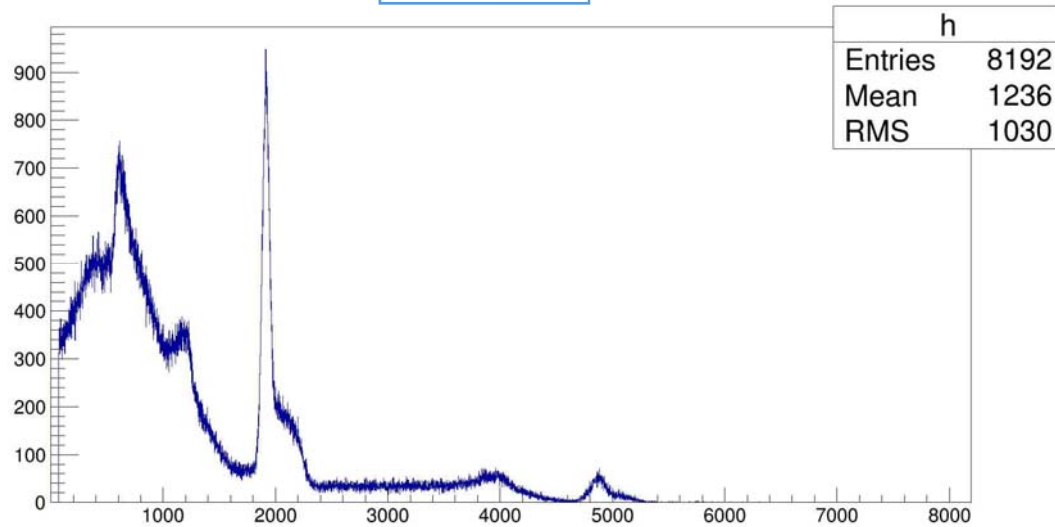
V vs FWHM (fotopico 1275)



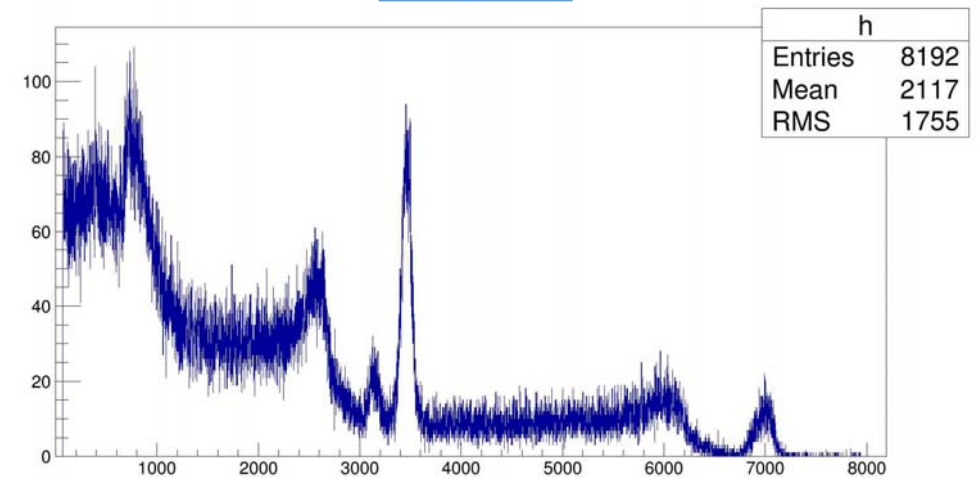
V vs FWHM (fotopico 1275)



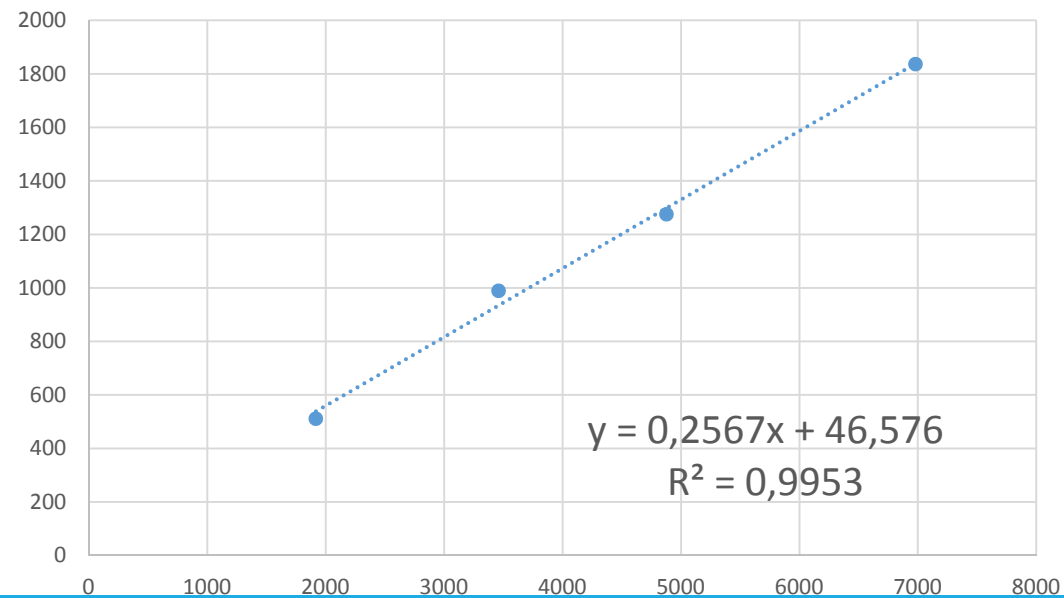
Sodio 22



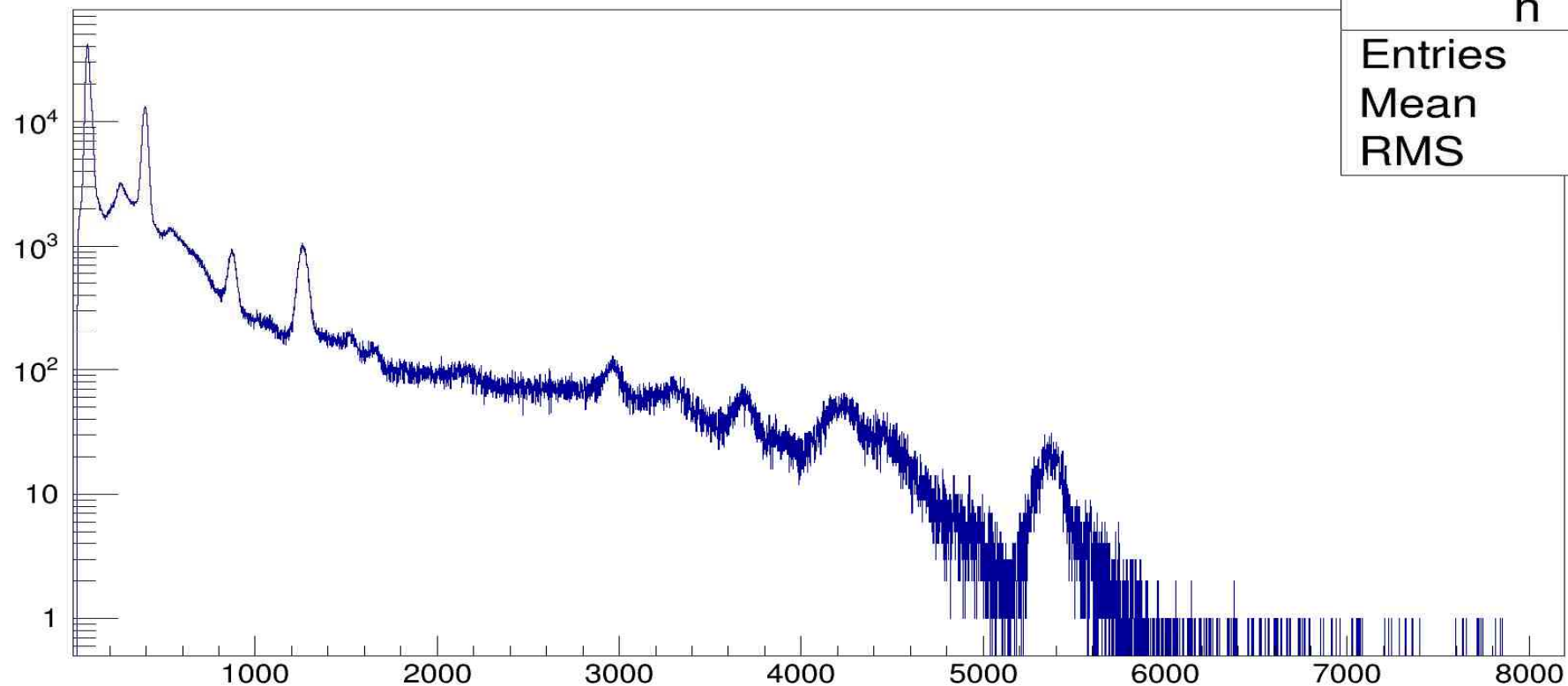
Ytrio 88



Curva de calibración del fotodetector a 780 V



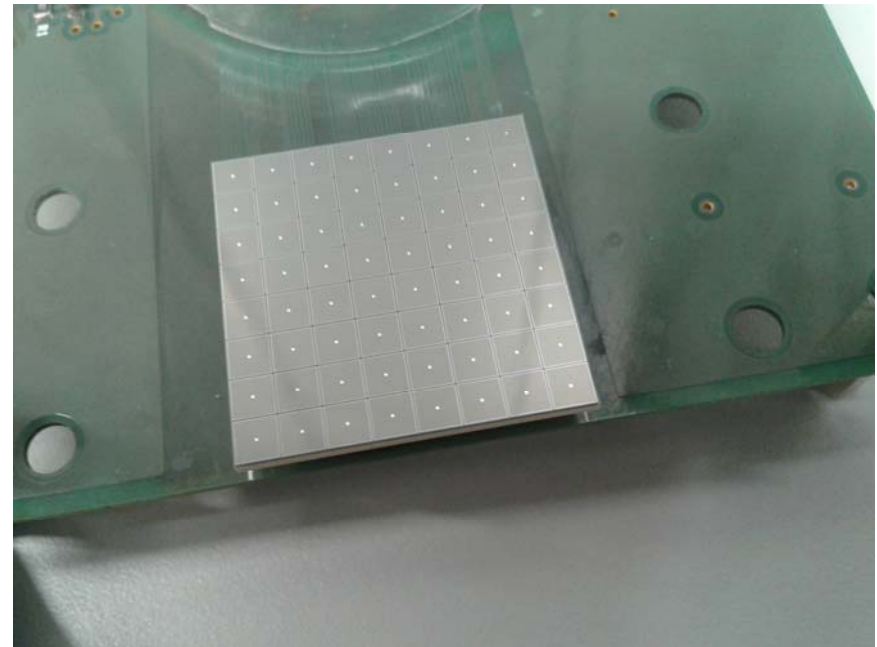
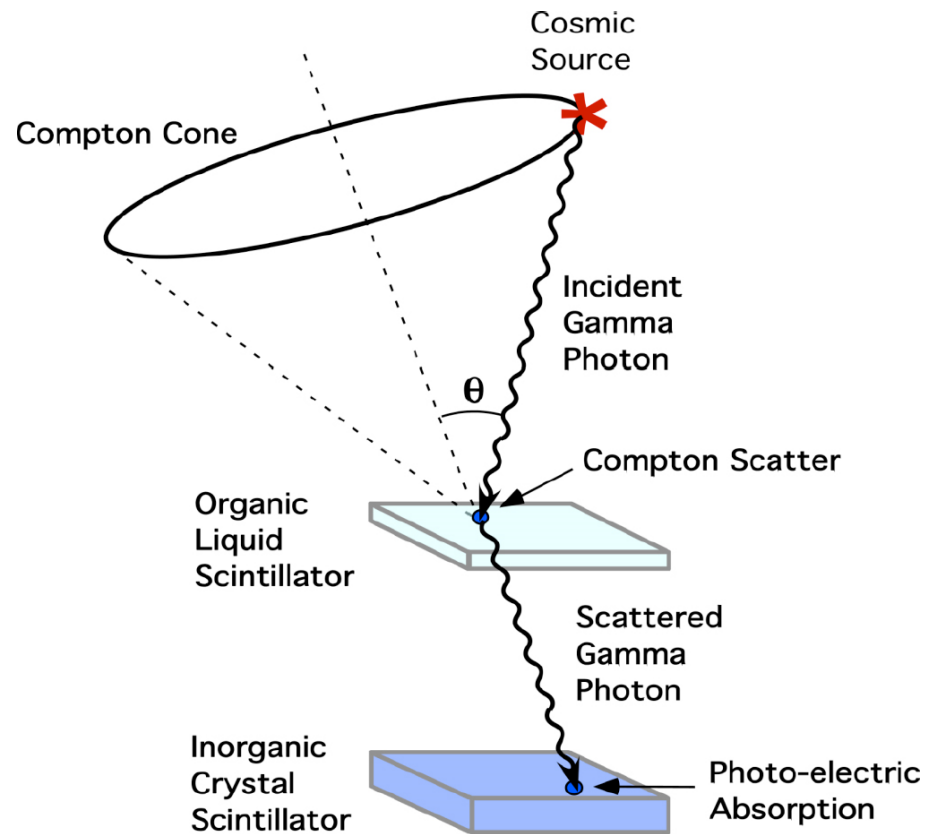
Europio 152



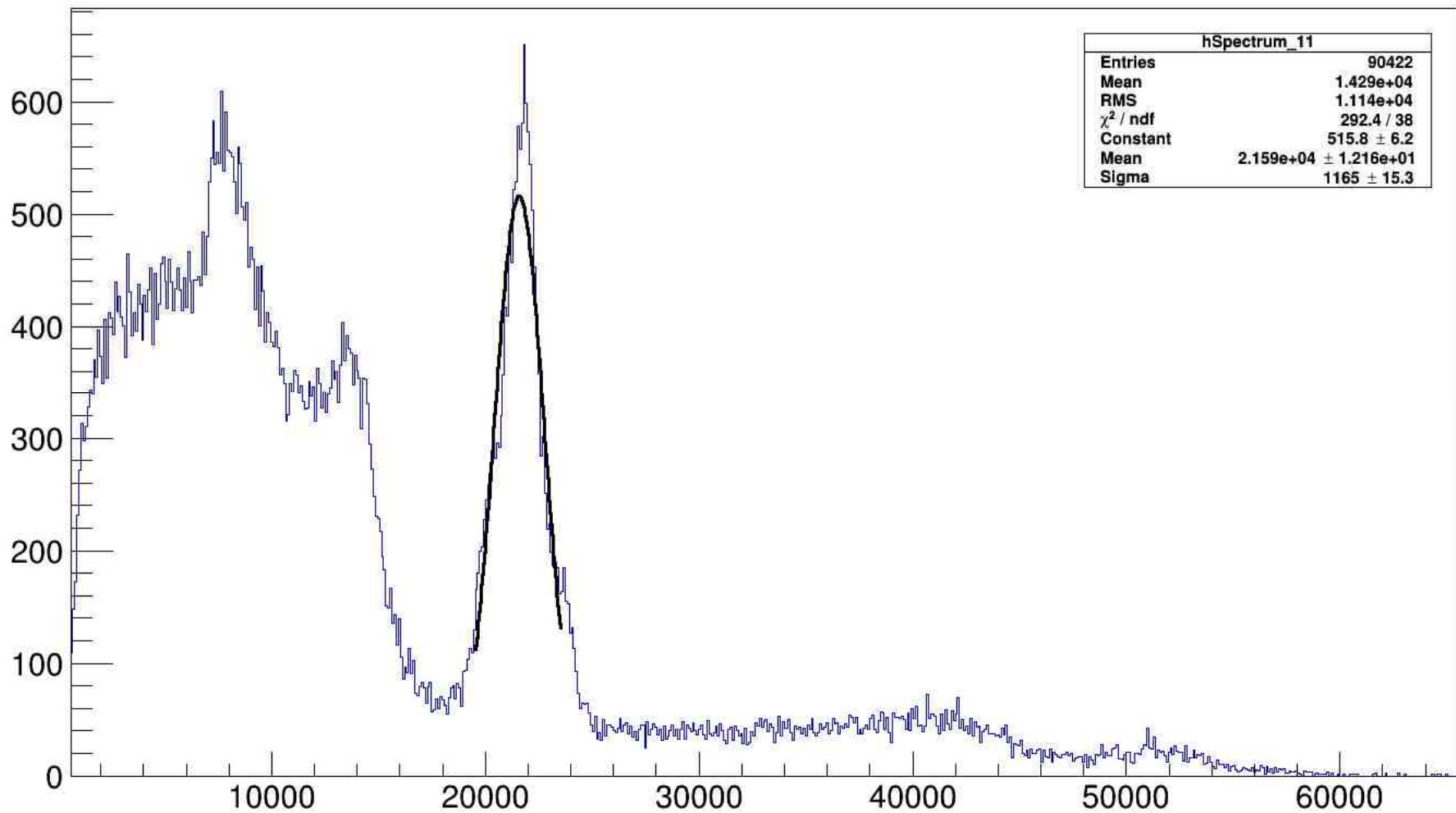
h	
Entries	8192
Mean	468.1
RMS	719.1

Europio			
Canal	Energía(keV)	Energía real(keV)	Diferencia(keV)
80,4	67,2		
394,2	147,8	121,8	26,0
870,7	270,1	244,7	25,4
1261	370,3	344,3	26,0
2959	806,3	778,9	27,4
3671	989,1	964	25,1
5365	1424,0	1408	16,0

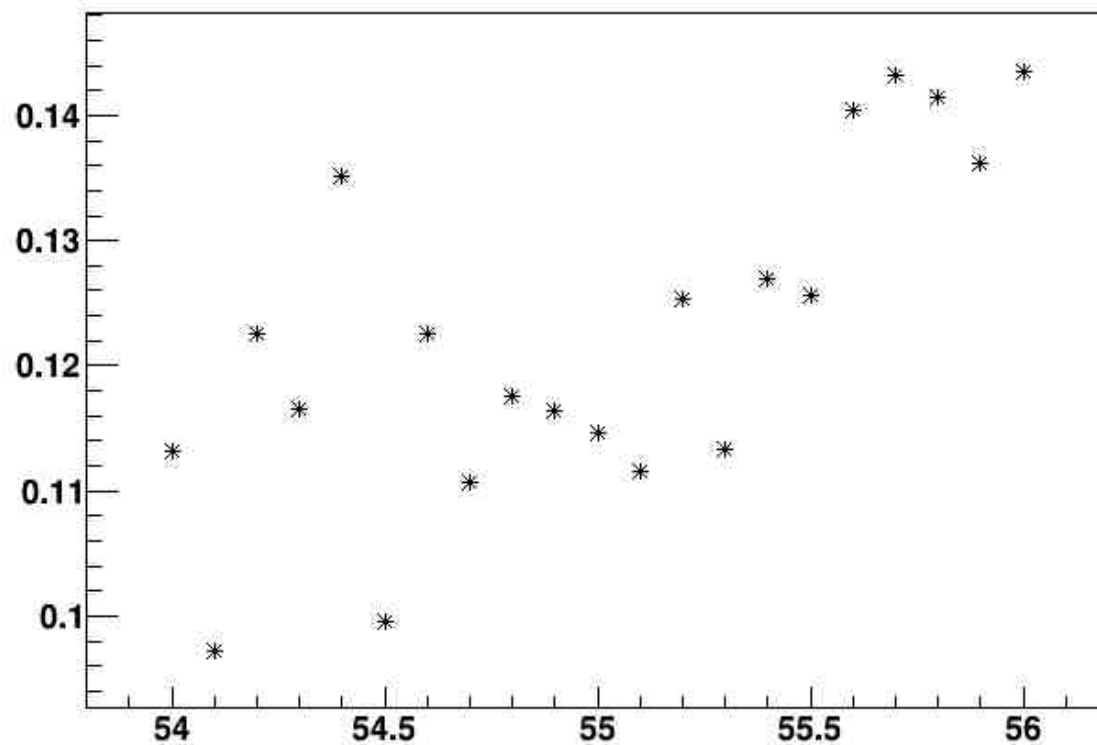
Caracterización de un SiPM para un telescopio Compton



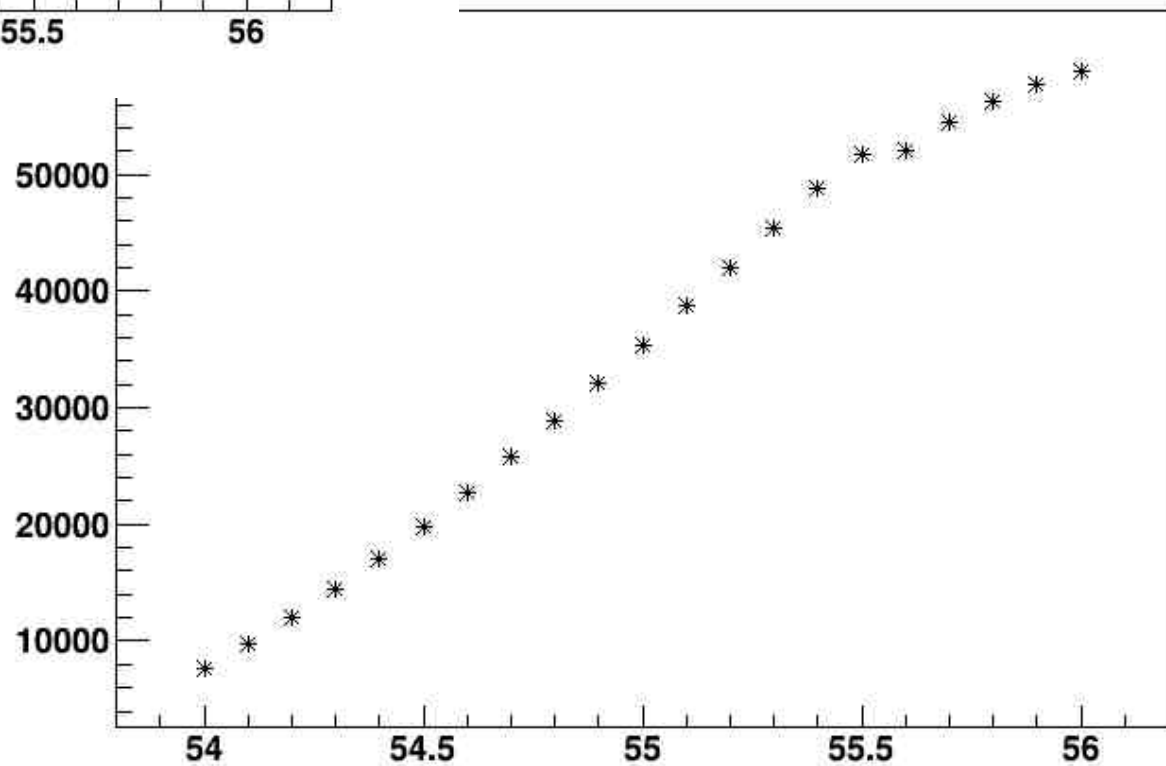
Espectro de emisión del Na-22



Graph



Gráficas de resolución
energética y valor del pico
de 511 frente al voltaje
aplicado



GRACIAS POR SU
ATENCIÓN