



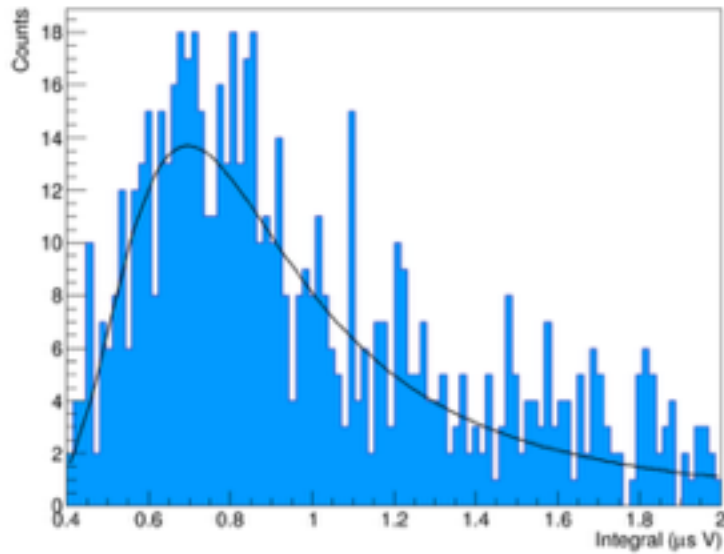
The
University
Of
Sheffield.

CYGNUS Gas Meeting

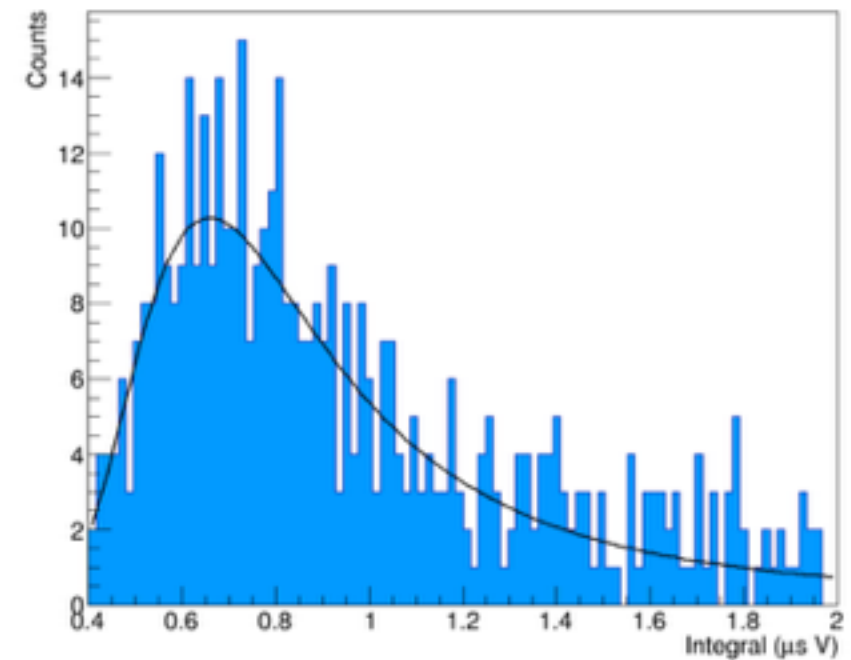
Next day update!

Andrew Scarff
University of Sheffield
7 8 June 2017

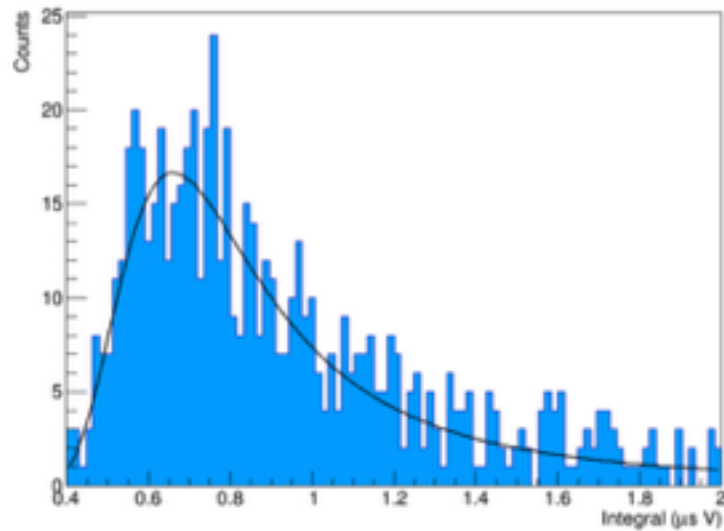
Landau Fits!



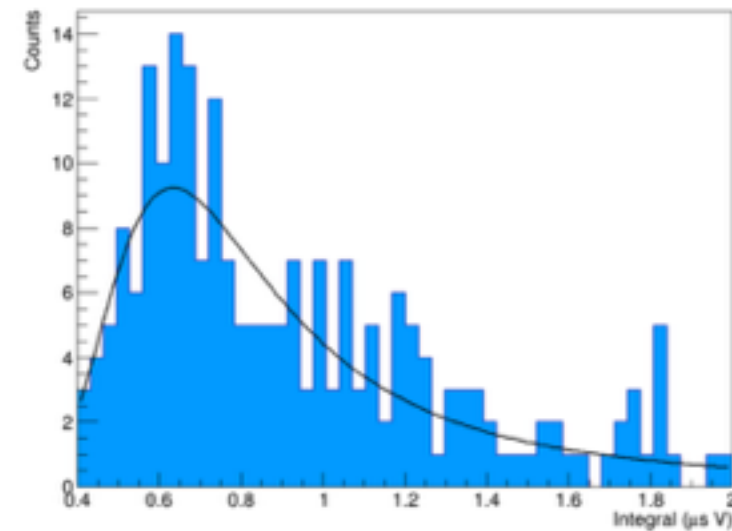
(a) 20 Torr.



(b) 30 Torr.



(c) 40 Torr.



(d) 50 Torr.

Fig. 7.6 ^{55}Fe spectra in pressures of 20 - 50 Torr of SF_6 .

Gains in SF₆

- Fitted with Landau curve - worked perfectly!
- Good gains still found
- Resolution calculated from σ/μ of landau fit

Pressure (Torr)	THGEM Voltage (V)	Gain	Resolution (%)
20	770	8600 \pm 150	19
30	845	8100 \pm 180	20
40	900	8100 \pm 130	17
50	940	7800 \pm 300	20

Table 7.1 Gain measurements for different pressures of SF₆.