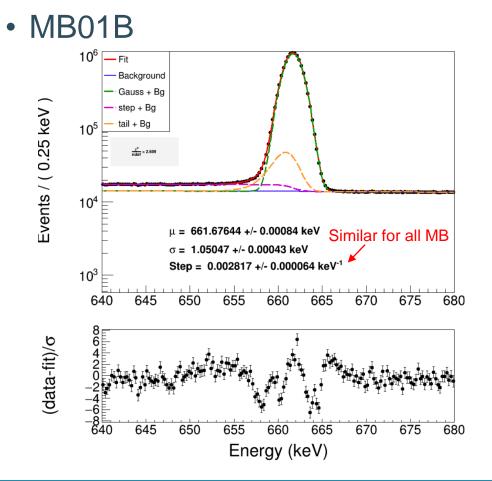


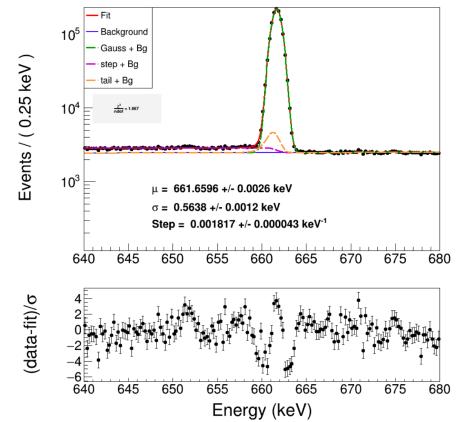
Update muX meeting 21/04

Michael Heines

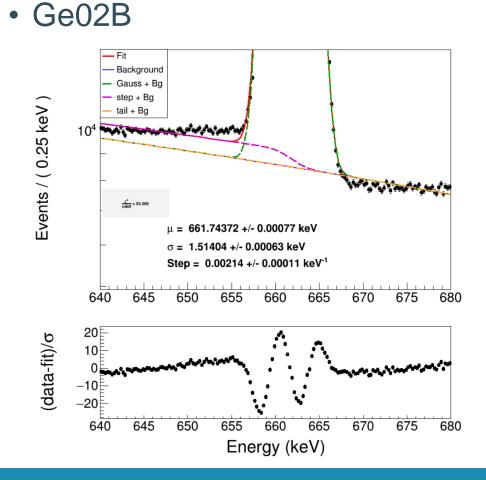
Fitting with hypermet



• Ge02A



The choice of a good step size



• Uncertainty on position is good, but reduced chi square is not

The choice of a good step size

• Ge08 - Fit Background Gauss + Bo Events / (0.25 keV) step + Bg tail + Ba I wanted and a state of the 661.71806 +/- 0.00076 keV σ = 0.91582 +/- 0.00045 keV 10⁴ Step = 0.00000000 +/- 0.00000026 keV 665 640 645 650 655 660 670 675 680 **30**E (data-fit)/σ 20 10 640 645 650 655 660 665 670 680 675 Energy (keV)

- Just a bad step, or also high-energy tail?
- Idea: First fit outside peak regime with linear + step → Fix in final fit

Step size initially seems rather constant as a function of energy \rightarrow Fix all to value of 662 keV?

	Energy	Step (keV ⁻¹)
MB01B	662 keV	2.830(64) e-2
	1173 keV	2.72(18)e-2
	1332 keV	2.97(12)e-2
	1460 keV	2.93(68)e-2

What's next?

- Continue on hypermet fitting
- Still stuck with efficiency
- Implantation at iThemba

