Ba-133 81 KeV Energy Peak 40000 Fit Range of Data: [66.8, 109.4] KeV Data Fit Functional Form: $\frac{A}{\sigma\sqrt{2\pi}} \exp[-\frac{(x-\mu)^2}{2\sigma^2}] + mx + b$ 35000 $A = 385199.24 \pm 1007.48$ $\mu = 87.39 \pm 0.01$ $\sigma = 6.98 \pm 0.02$ 30000 $m = -84.61 \pm 0.86$ $b = 10871.24 \pm 86.37$ $\chi^2 = 270.18$ 25000 DOF = 65Counts 20000 15000 10000 5000 60 70 80 90 100 110 120 Energy (KeV)