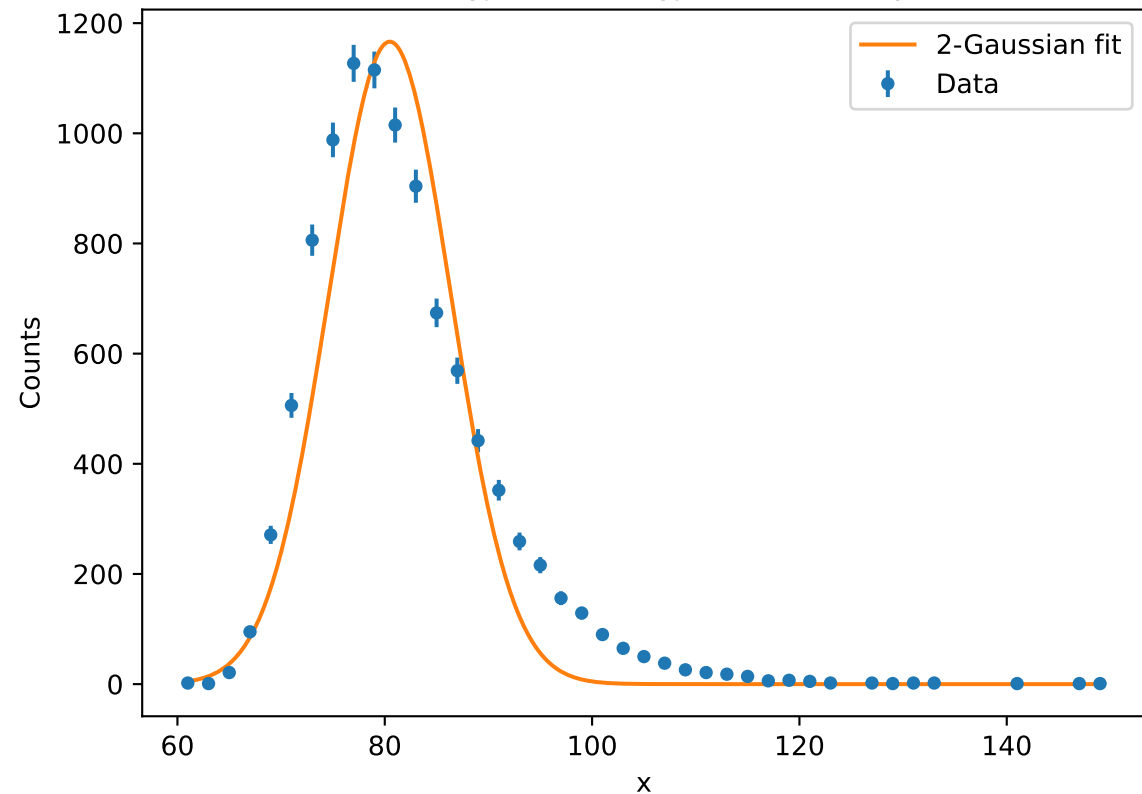
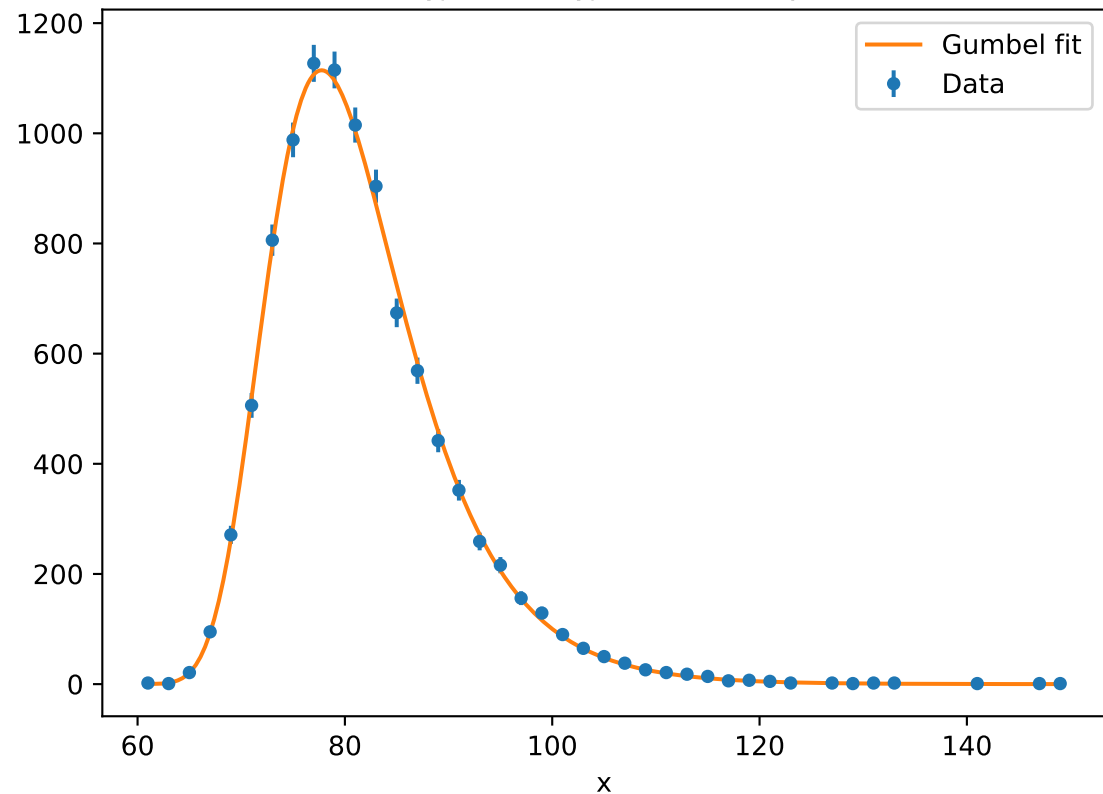


2 Gaussians $\chi^2=1386.8$, $\chi^2/\text{ndf}=42.03$, $p=0.000$



Gumbel $\chi^2=21.5$, $\chi^2/\text{ndf}=0.60$, $p=0.973$



Results and comments:

chi squared p-values were: 2-Gaussian: $p=1.52e-270$, Gumbel: $p=0.973$

NLL were: 2-Gaussian: $D=6224.7$, $\text{dof}=33$, $p=0$; Gumbel: $D=33.7$, $\text{dof}=36$, $p=0.581$

Conclusion: Gumbel performed better.