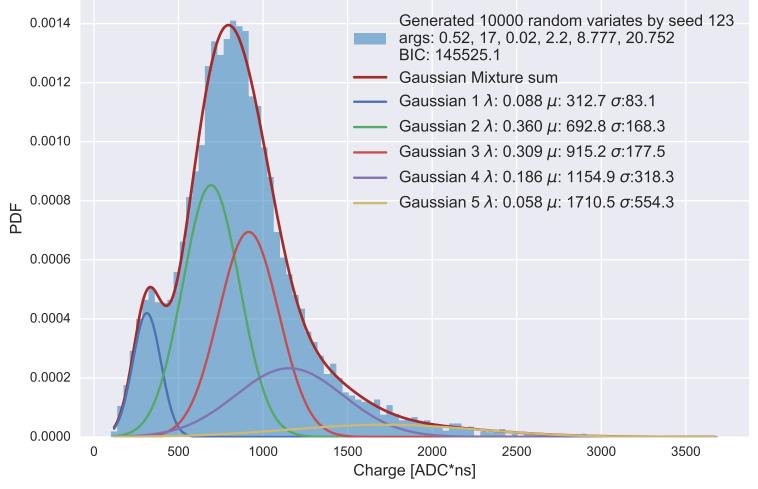
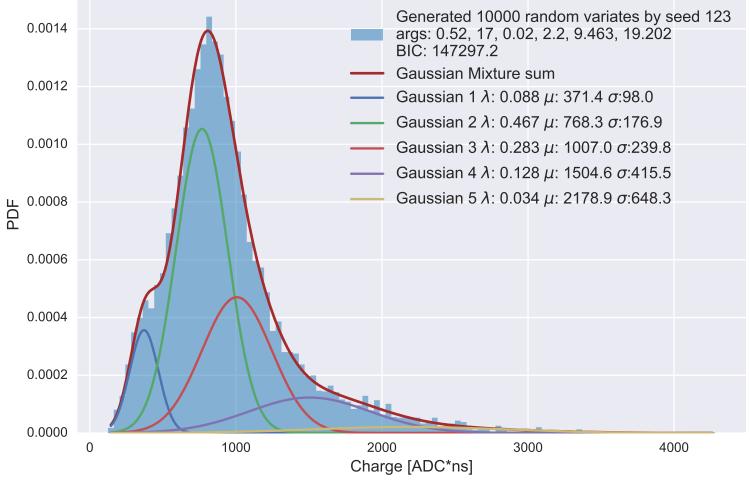
Charge PDF Gaussian decomposition with 10000 sample 16 inits 0.0014 Generated 10000 random variates by seed 123 args: 0.52, 17, 0.02, 2.2, 8.777, 19.202 BIC: 146435.0 Gaussian Mixture sum 0.0012 Gaussian 1  $\lambda$ : 0.084  $\mu$ : 334.8  $\sigma$ :88.9 Gaussian 2  $\lambda$ : 0.421  $\mu$ : 731.9  $\sigma$ :175.2 0.0010 Gaussian 3  $\lambda$ : 0.305  $\mu$ : 957.8  $\sigma$ :206.0 Gaussian 4  $\lambda$ : 0.144  $\mu$ : 1321.1  $\sigma$ :368.8 0.0008 Gaussian 5  $\lambda$ : 0.046  $\mu$ : 1921.9  $\sigma$ :604.5 0.0006 0.0004 0.0002 0.0000 500 1000 1500 2000 2500 3000 4000 0 3500

Charge [ADC\*ns]



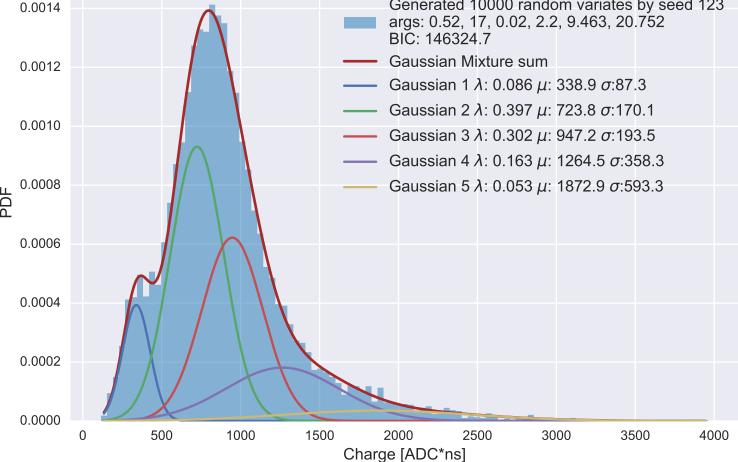


Charge PDF Gaussian decomposition with 10000 sample 16 inits

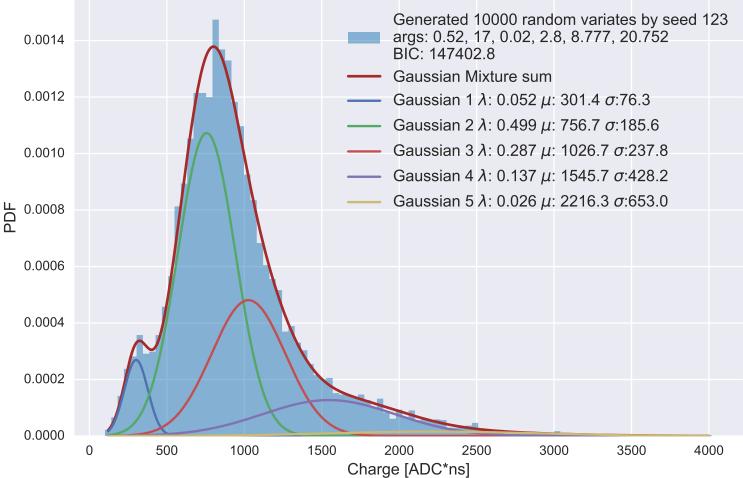
Generated 10000 random variates by seed 123

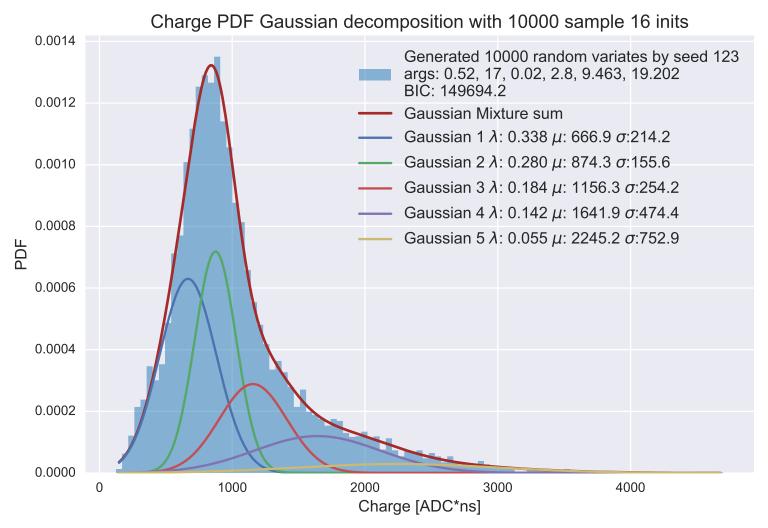
args: 0.52, 17, 0.02, 2.2, 9.463, 20.752

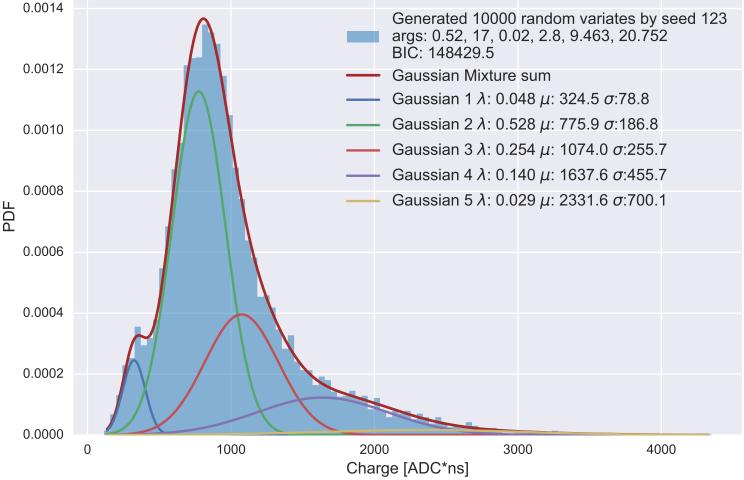
BIC: 146324 7

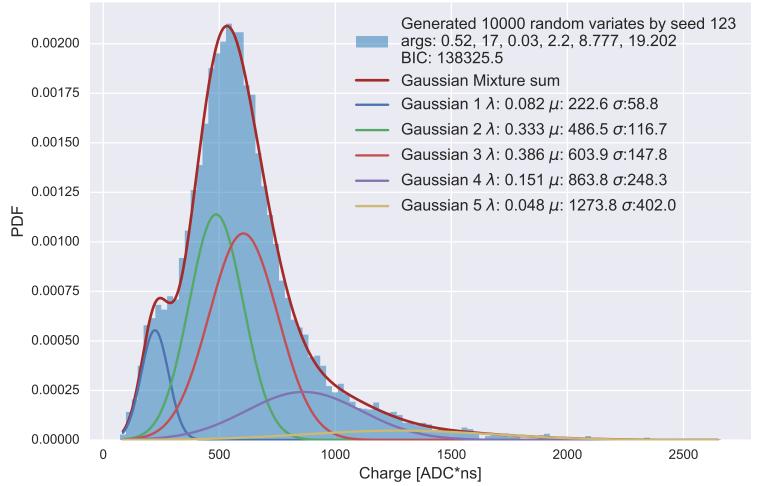


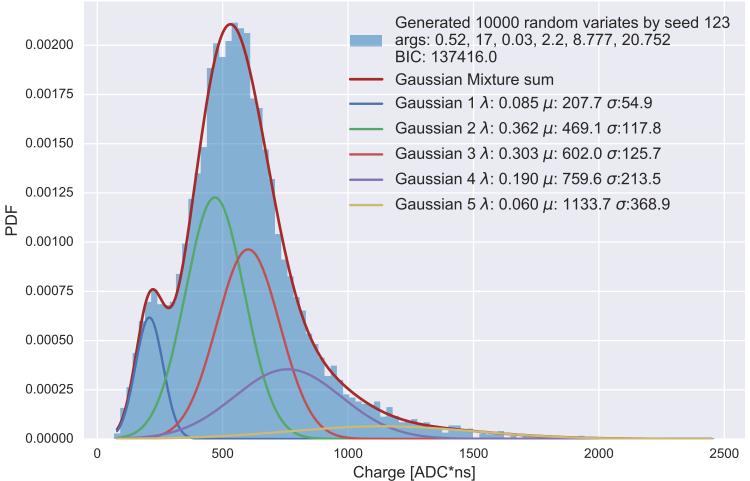
Charge PDF Gaussian decomposition with 10000 sample 16 inits 0.0014 Generated 10000 random variates by seed 123 args: 0.52, 17, 0.02, 2.8, 8.777, 19.202 BIC: 148641.6 0.0012 Gaussian Mixture sum Gaussian 1  $\lambda$ : 0.243  $\mu$ : 578.2  $\sigma$ :195.3 Gaussian 2  $\lambda$ : 0.325  $\mu$ : 833.7  $\sigma$ :143.6 0.0010 Gaussian 3  $\lambda$ : 0.212  $\mu$ : 1074.3  $\sigma$ :210.0 Gaussian 4  $\lambda$ : 0.153  $\mu$ : 1450.6  $\sigma$ :424.7 0.0008 Gaussian 5  $\lambda$ : 0.068  $\mu$ : 2031.2  $\sigma$ :686.9 0.0006 0.0004 0.0002 0.0000 2000 1000 3000 4000 Charge [ADC\*ns]

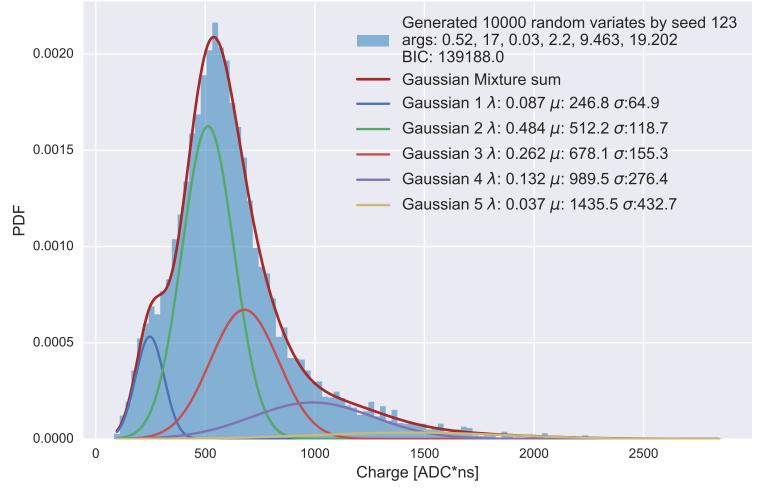


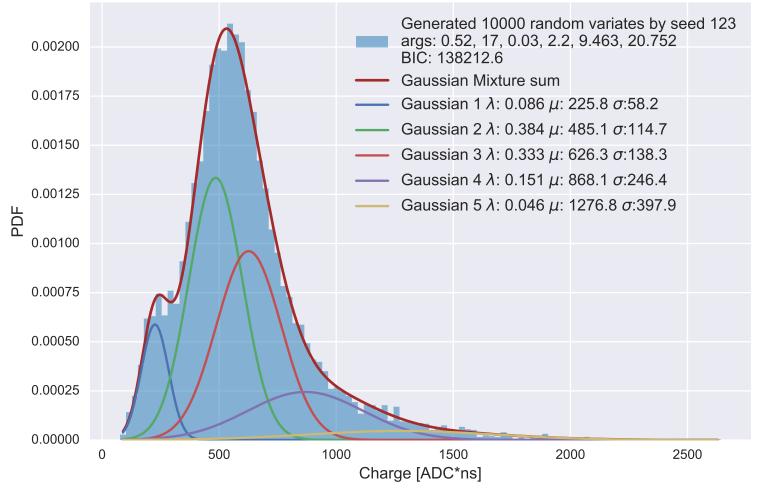


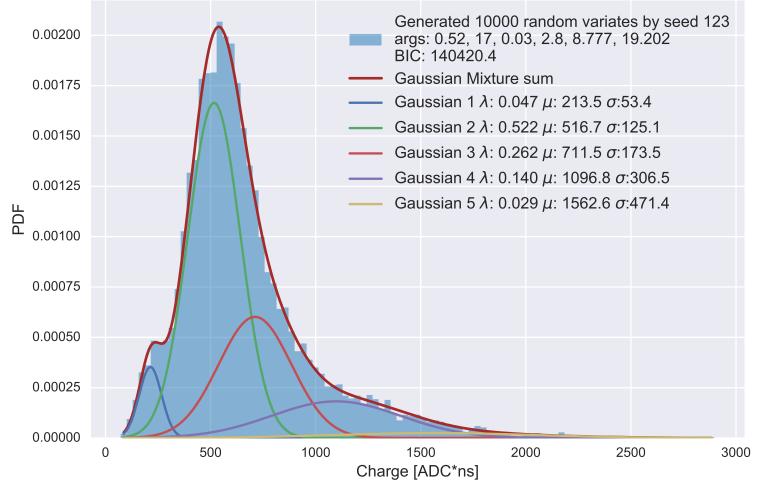


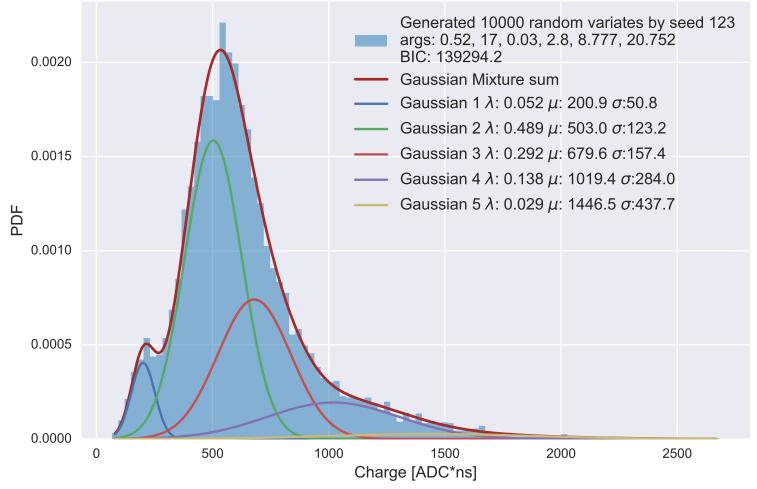


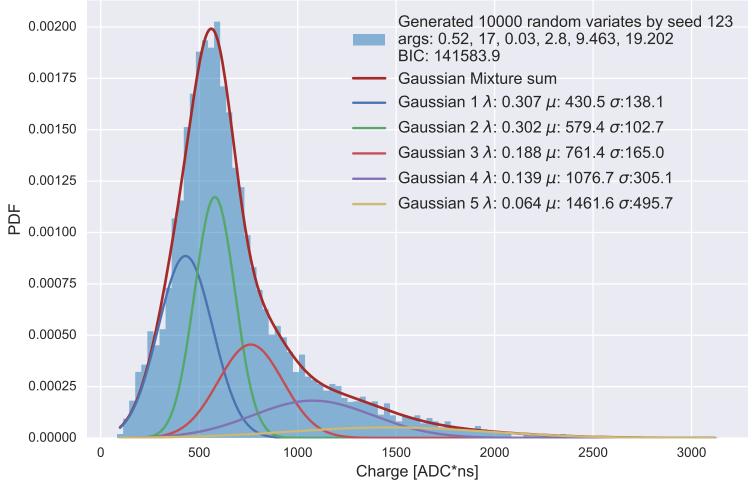


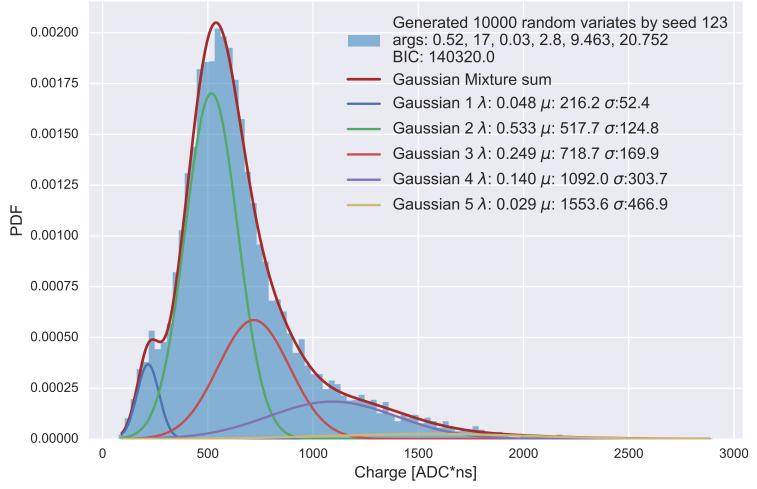


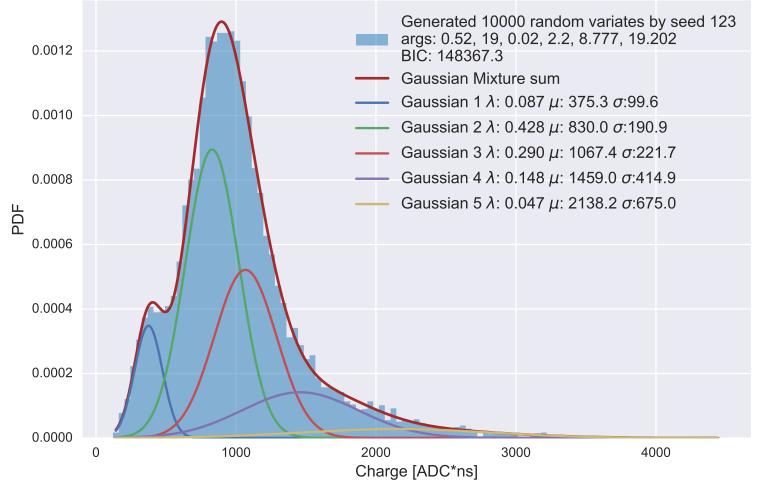


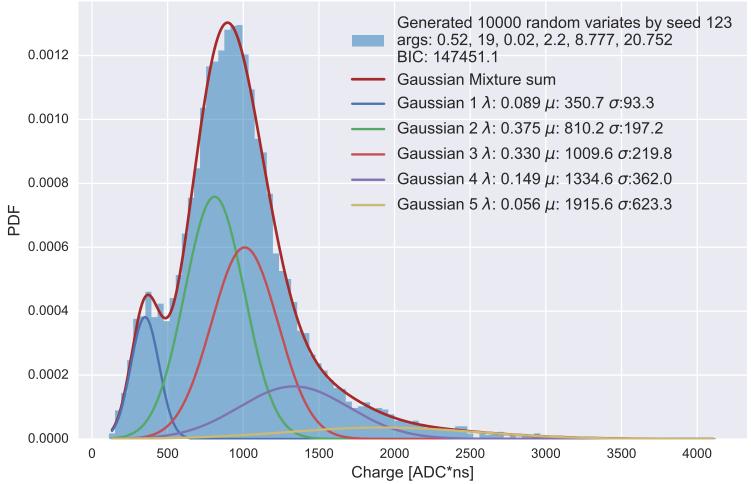




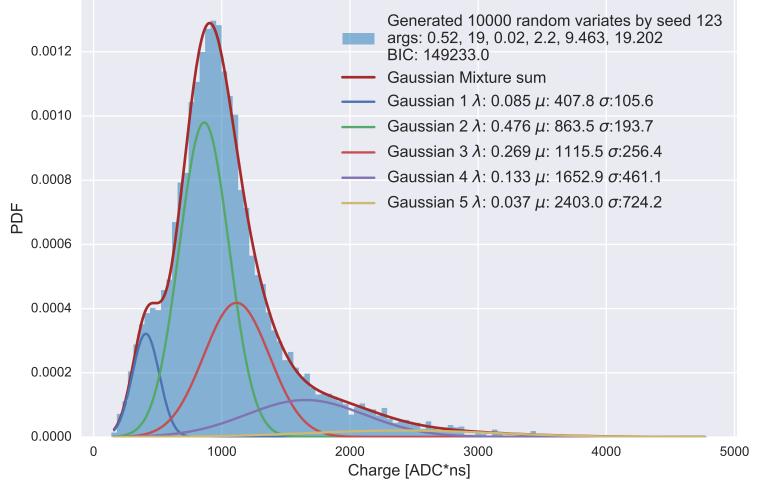


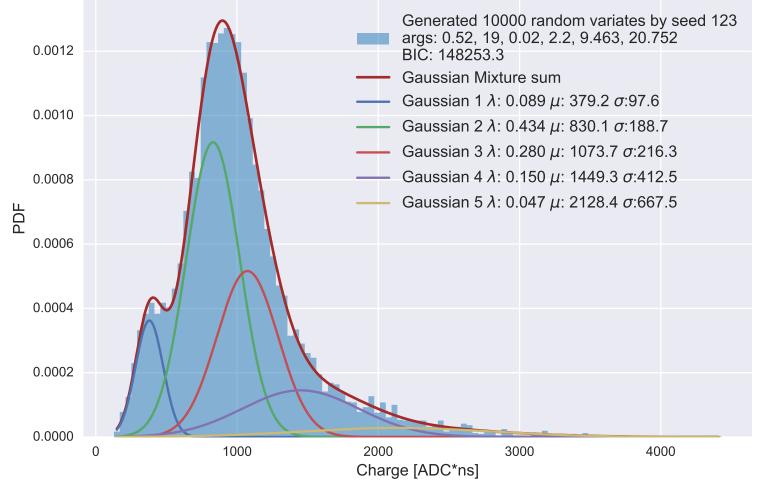


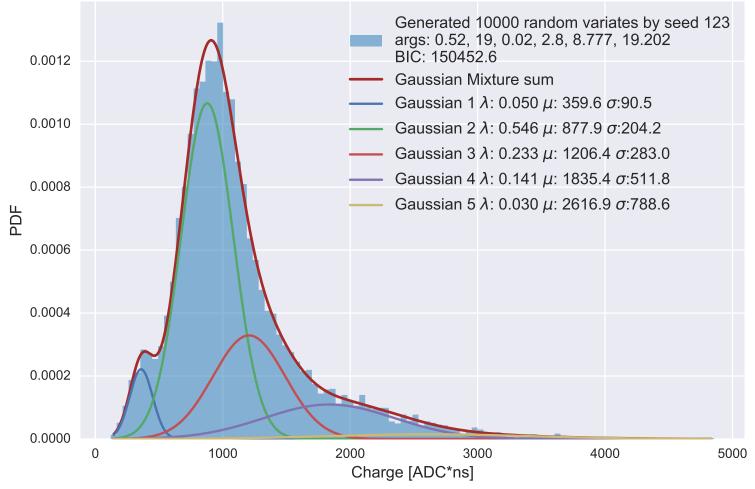


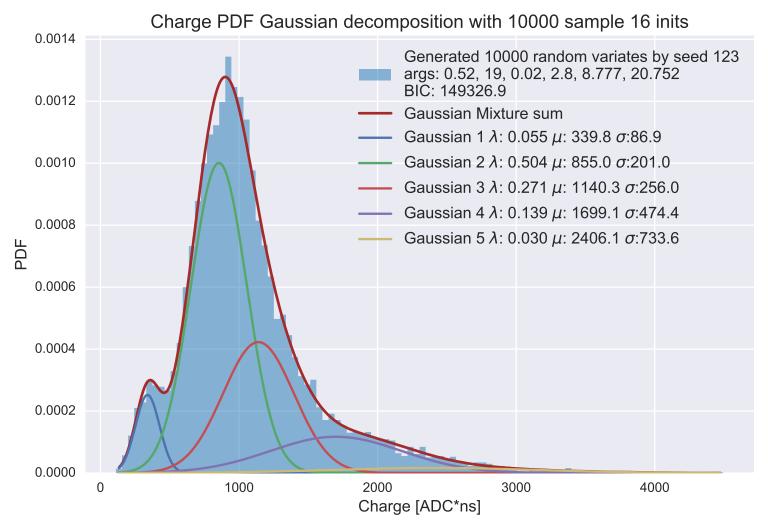


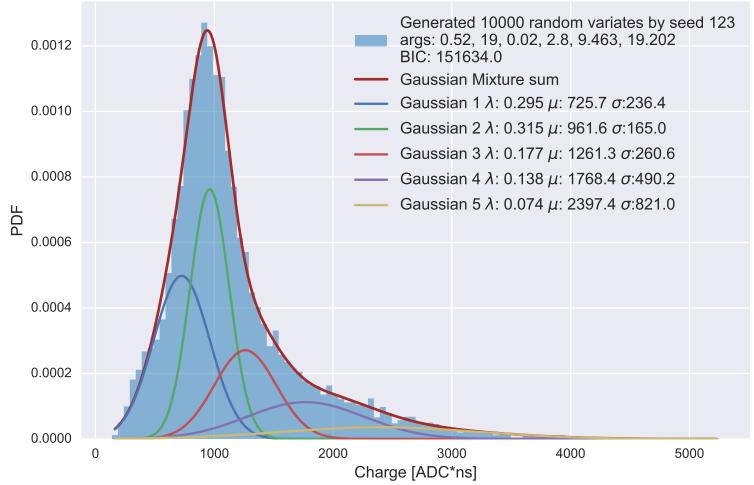


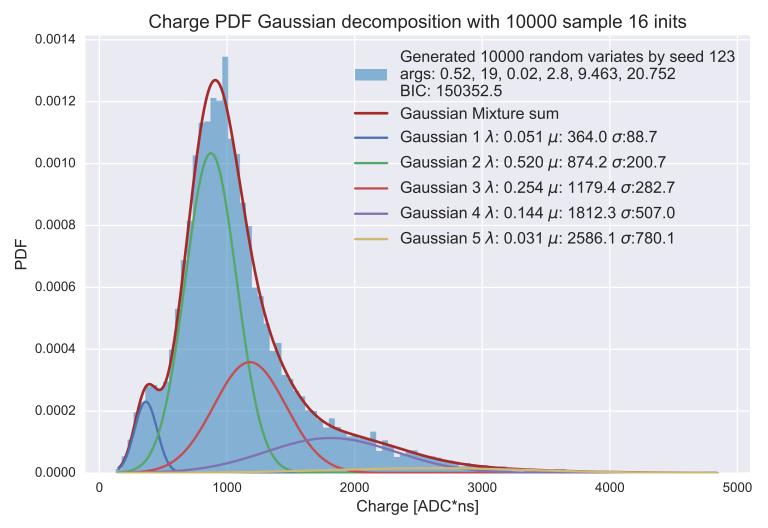


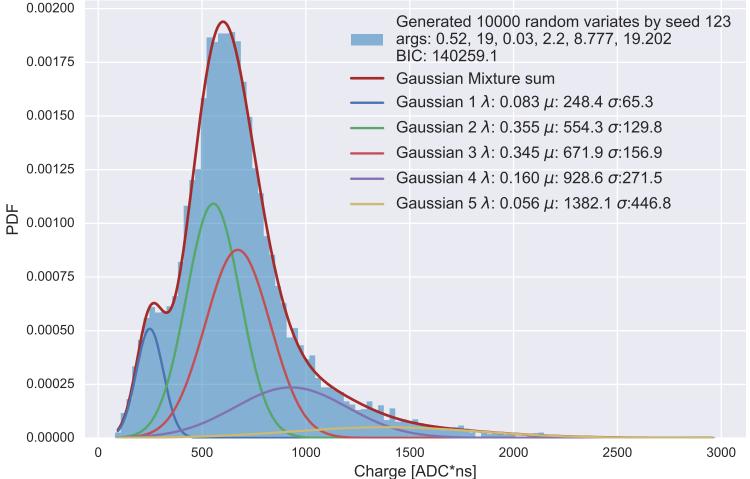


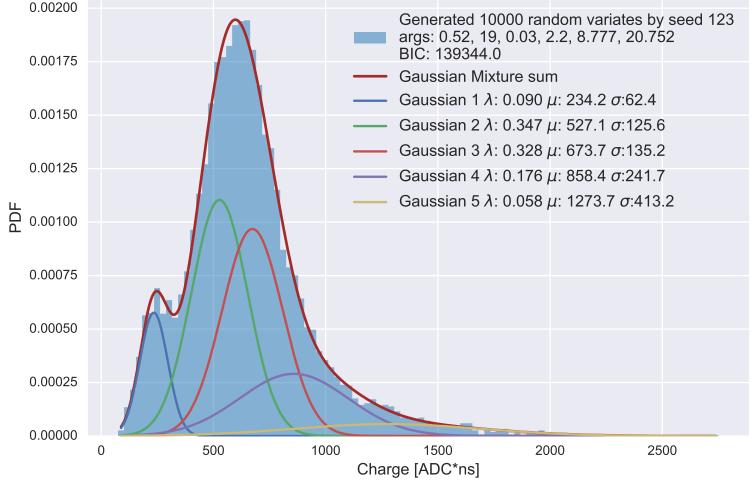


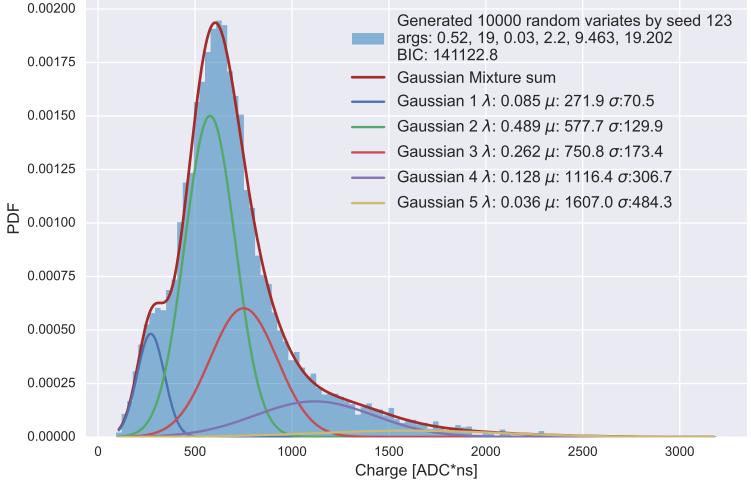


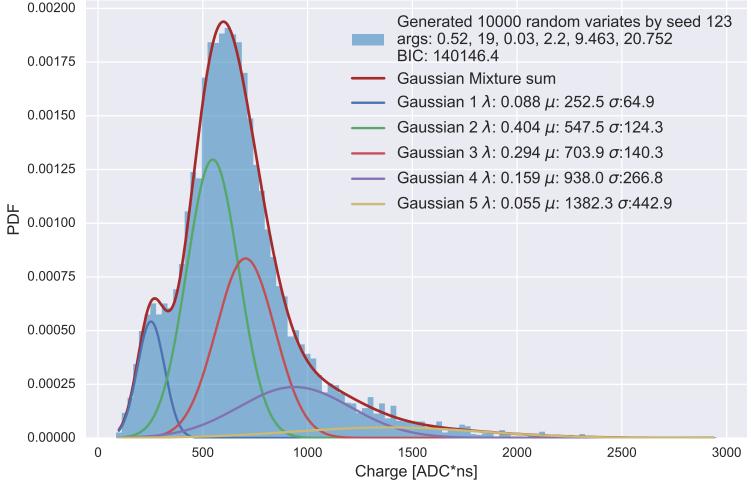


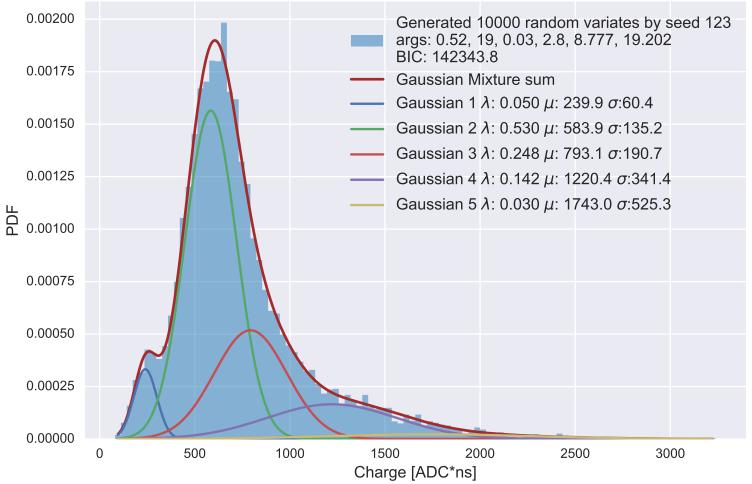


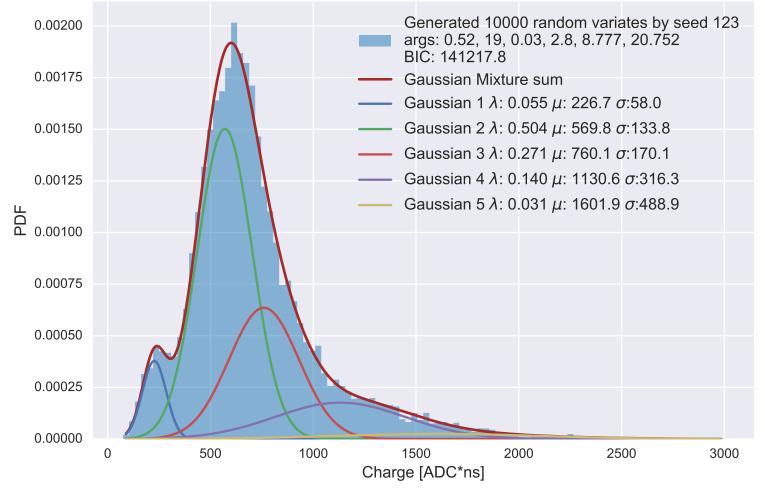


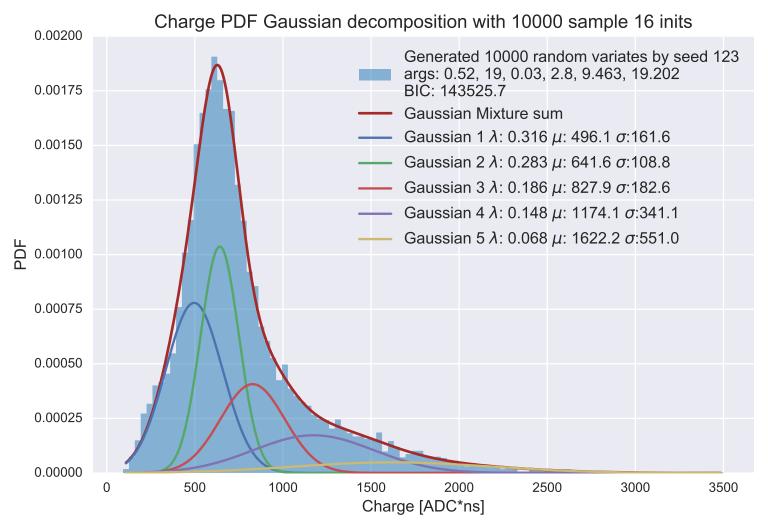


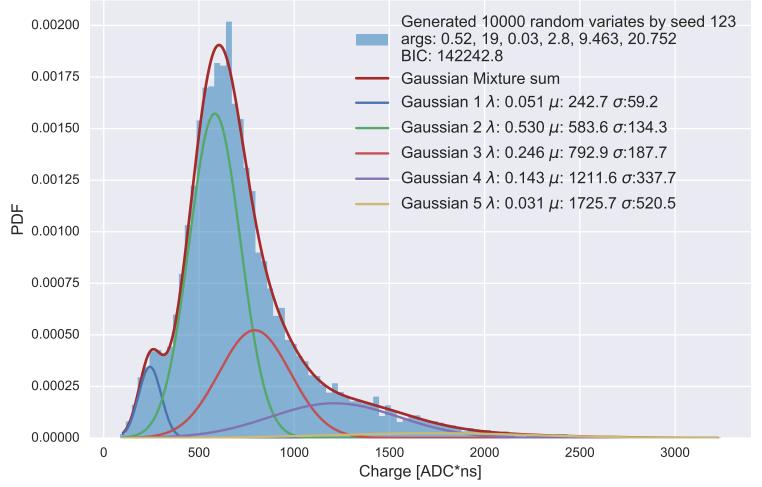


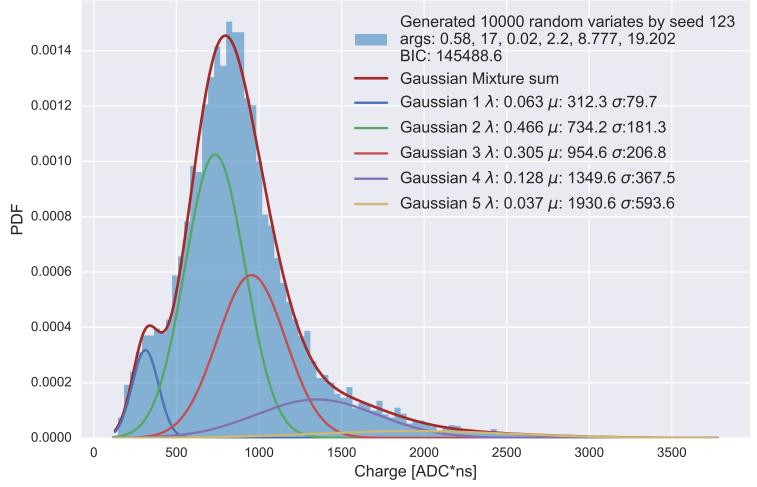


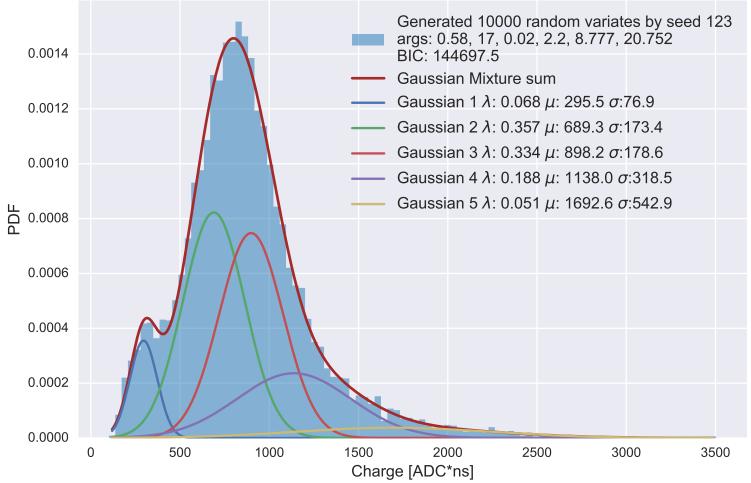




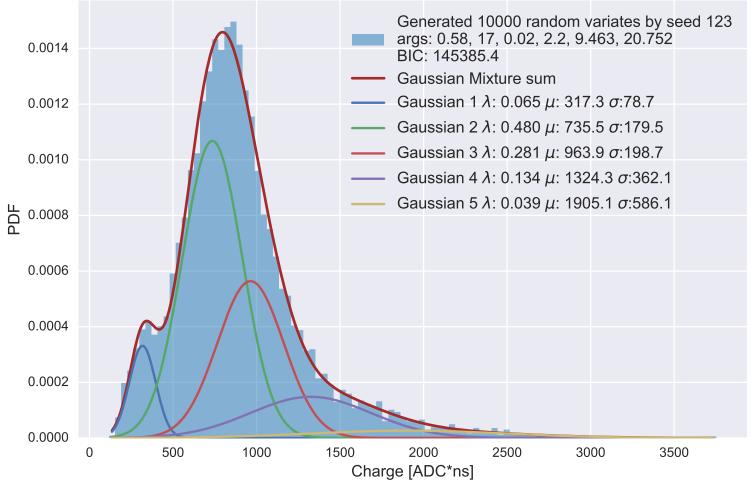


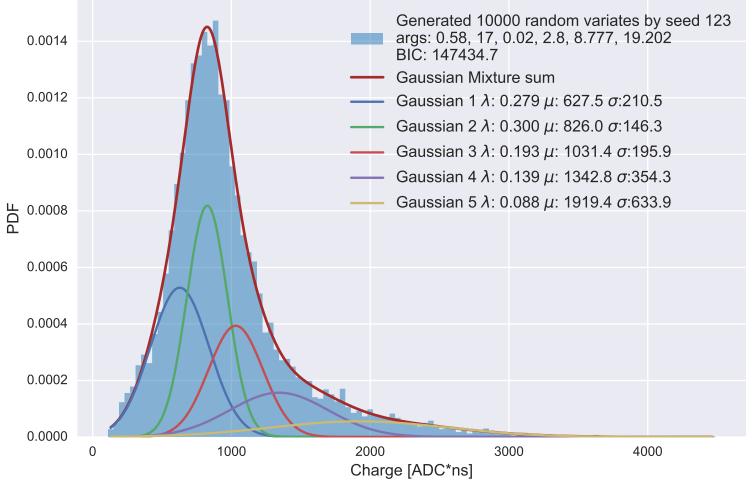


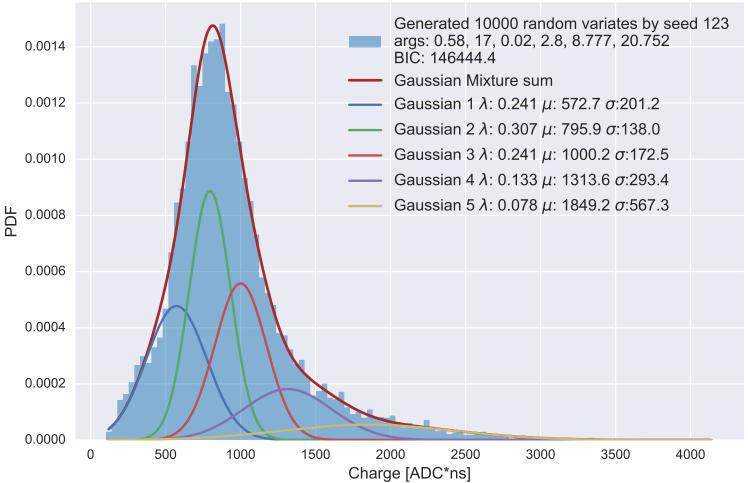




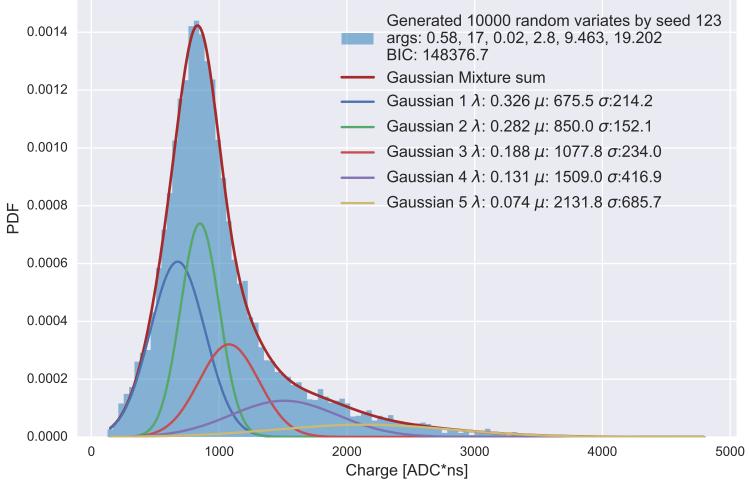
Charge PDF Gaussian decomposition with 10000 sample 16 inits 0.0016 Generated 10000 random variates by seed 123 args: 0.58, 17, 0.02, 2.2, 9.463, 19.202 BIC: 146236.0 0.0014 Gaussian Mixture sum Gaussian 1  $\lambda$ : 0.058  $\mu$ : 335.9  $\sigma$ :81.8 0.0012 Gaussian 2  $\lambda$ : 0.532  $\mu$ : 766.2  $\sigma$ :187.0 Gaussian 3  $\lambda$ : 0.270  $\mu$ : 997.6  $\sigma$ :241.5 0.0010 Gaussian 4  $\lambda$ : 0.109  $\mu$ : 1533.3  $\sigma$ :398.0 Gaussian 5  $\lambda$ : 0.031  $\mu$ : 2137.8  $\sigma$ :638.9 0.0008 0.0006 0.0004 0.0002 0.0000 500 1000 1500 2000 2500 3000 3500 4000 0 Charge [ADC\*ns]

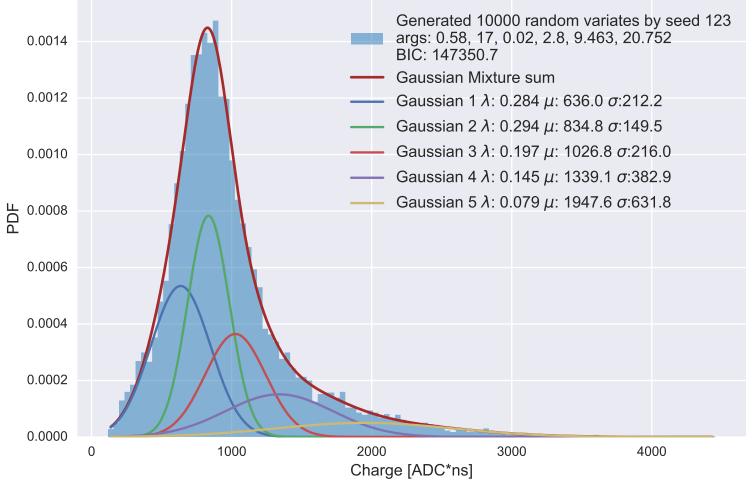


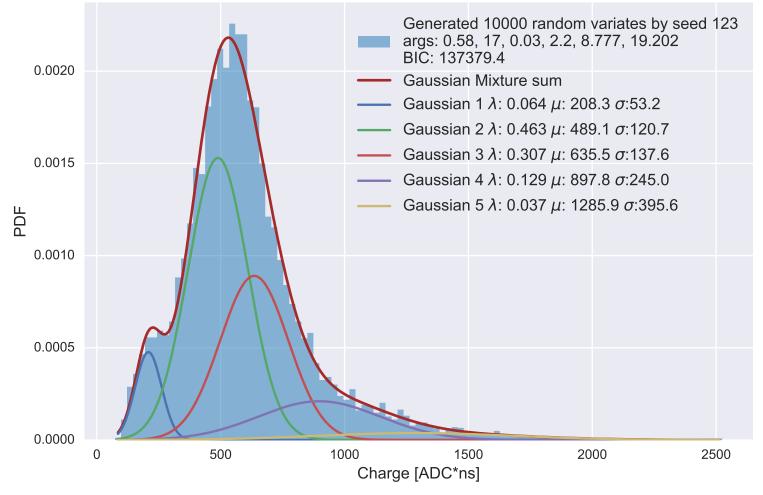


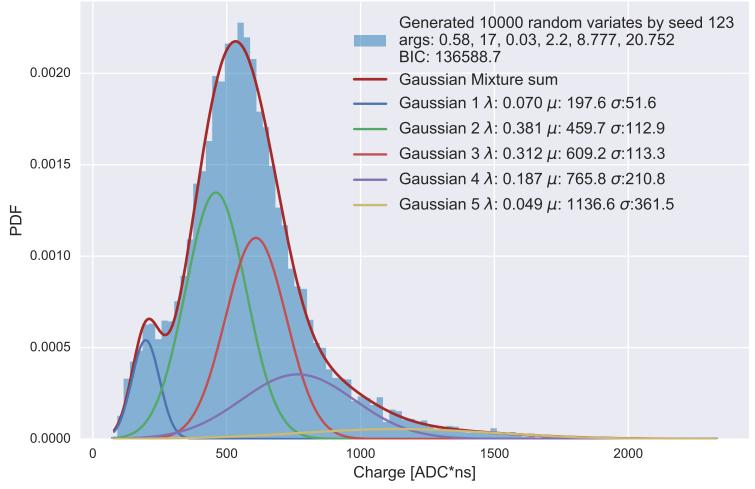


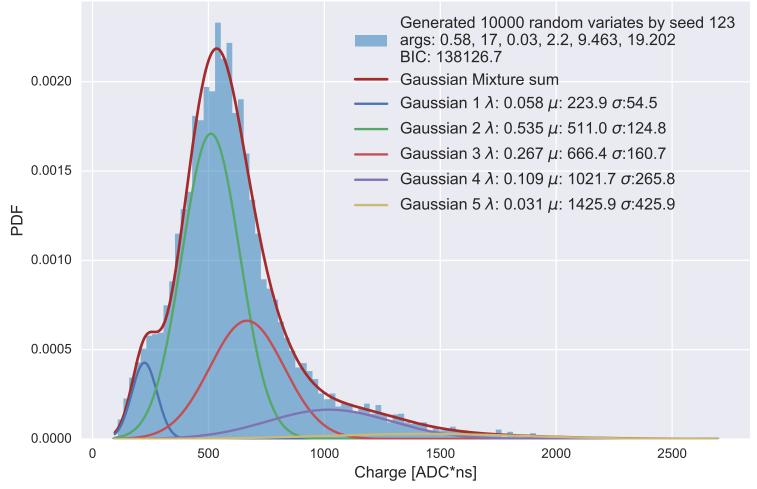


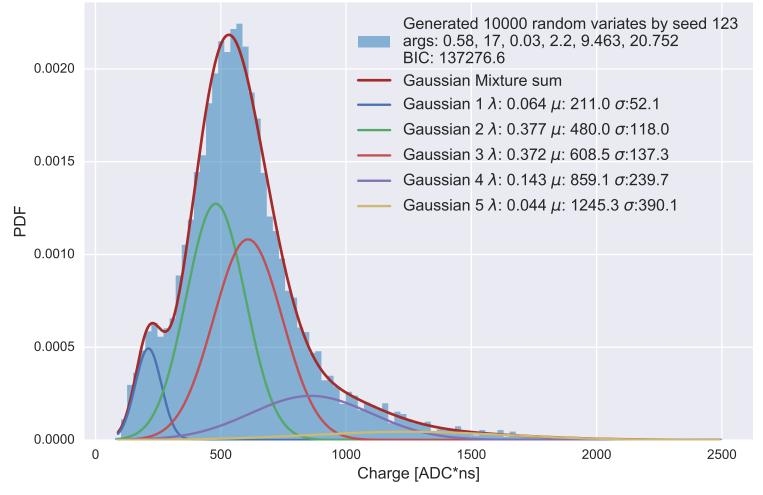


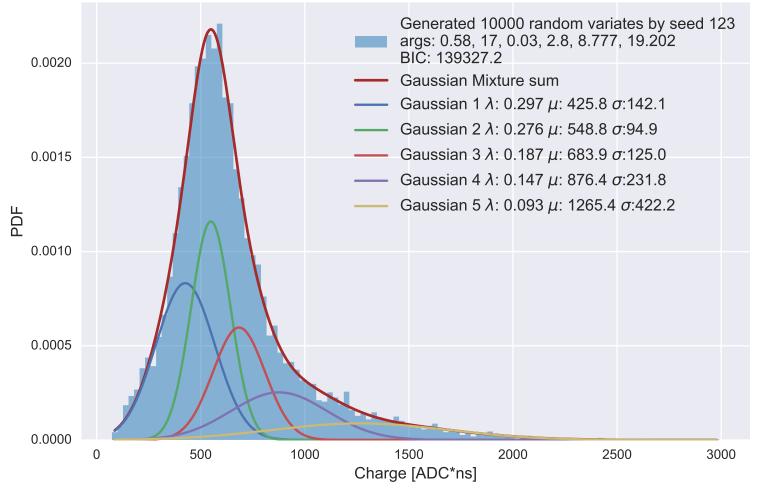


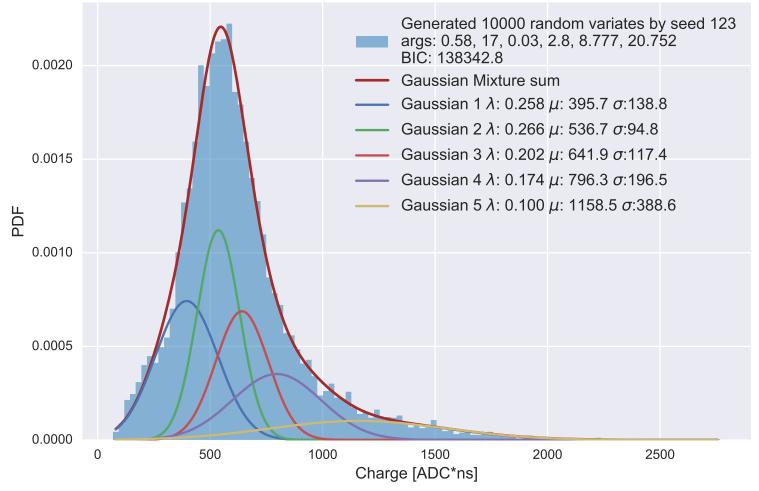


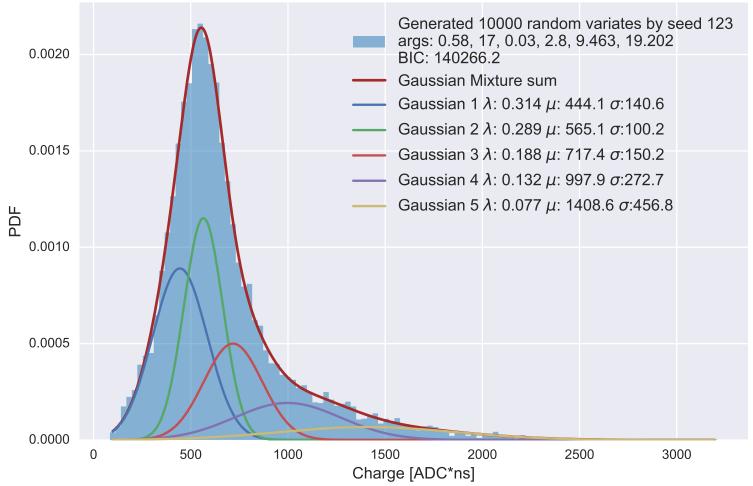


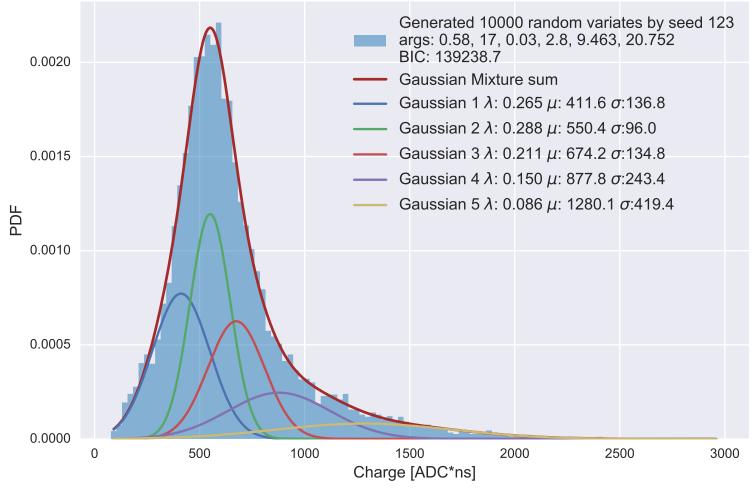


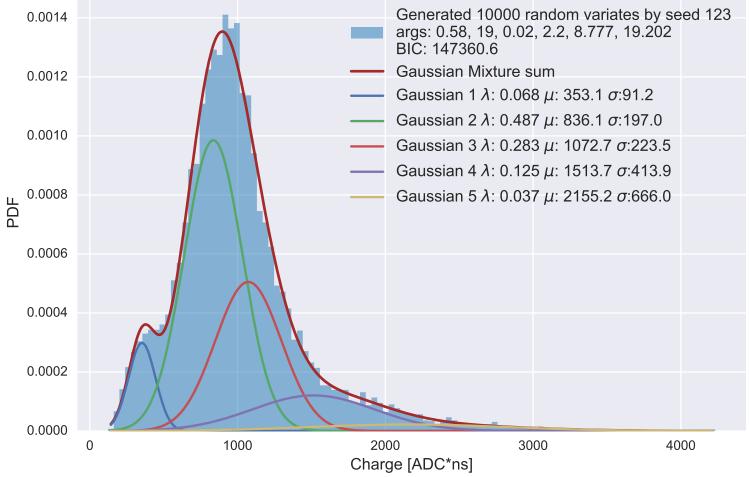


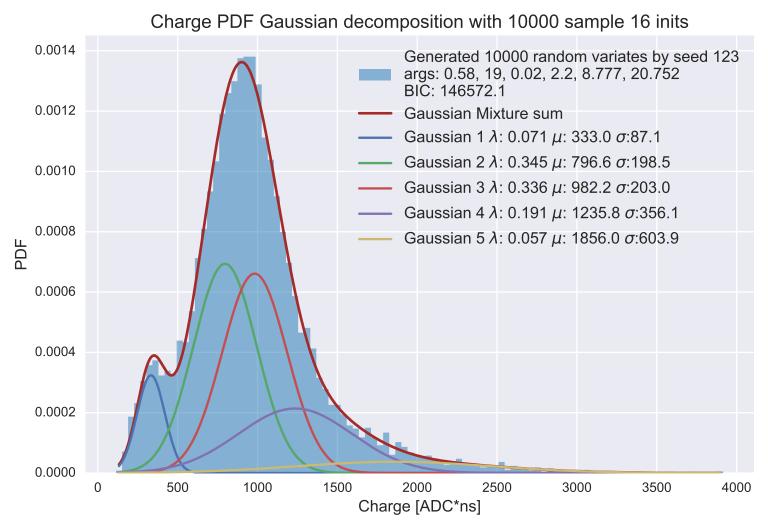






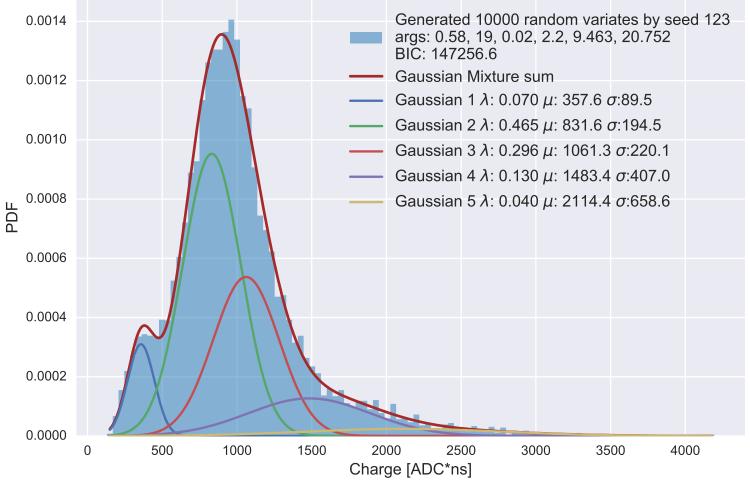






Charge PDF Gaussian decomposition with 10000 sample 16 inits 0.0014 Generated 10000 random variates by seed 123 args: 0.58, 19, 0.02, 2.2, 9.463, 19.202 BIC: 148107.2 Gaussian Mixture sum 0.0012 Gaussian 1  $\lambda$ : 0.062  $\mu$ : 375.7  $\sigma$ :91.5 Gaussian 2  $\lambda$ : 0.540  $\mu$ : 866.4  $\sigma$ :202.5 0.0010 Gaussian 3  $\lambda$ : 0.256  $\mu$ : 1108.8  $\sigma$ :262.5 Gaussian 4  $\lambda$ : 0.111  $\mu$ : 1705.7  $\sigma$ :444.3 0.0008 Gaussian 5  $\lambda$ : 0.031  $\mu$ : 2381.7  $\sigma$ :713.9 0.0006 0.0004 0.0002 0.0000 1000 2000 3000 4000

Charge [ADC\*ns]



Charge PDF Gaussian decomposition with 10000 sample 16 inits 0.0014 Generated 10000 random variates by seed 123 args: 0.58, 19, 0.02, 2.8, 8.777, 19.202 BIC: 149304.6 0.0012 Gaussian Mixture sum Gaussian 1  $\lambda$ : 0.235  $\mu$ : 673.0  $\sigma$ :231.0 Gaussian 2  $\lambda$ : 0.362  $\mu$ : 917.3  $\sigma$ :158.9 0.0010 Gaussian 3  $\lambda$ : 0.202  $\mu$ : 1168.4  $\sigma$ :209.5 Gaussian 4  $\lambda$ : 0.121  $\mu$ : 1586.8  $\sigma$ :384.6 0.0008 Gaussian 5  $\lambda$ : 0.080  $\mu$ : 2197.0  $\sigma$ :703.1 0.0006 0.0004 0.0002

2000

3000

Charge [ADC\*ns]

4000

5000

0.0000

1000

