

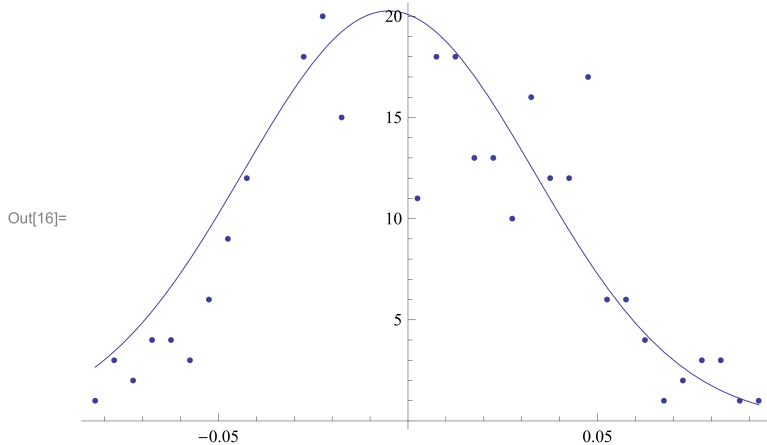
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In[10]:= h = HistogramList[data[[All, 2]], 30];
centers = MovingAverage[h[[1, All]], 2];
counts = h[[2, All]];
hd = Table[{centers[[i]], counts[[i]]}, {i, 1, Length[counts]}];
gaussian = a Exp[- (b - x) ^2 / c^2];
fit = NonlinearModelFit[hd, gaussian, {a, b, c}, x, ConfidenceLevel -> 0.68]
Show[Plot[fit["BestFit"], {x, First[centers], Last[centers]}], ListPlot[hd]]

TableForm[{fit["BestFitParameters"], fit["ParameterConfidenceIntervals"]},
  TableHeadings -> {{ "Parameter", "Confidence Interval"}}]

```

Out[15]= FittedModel $\left[20.263 e^{-338.622 \ll 1 \gg^2} \right]$



Out[17]//TableForm=

Parameter	a → 20.263	b → -0.00507746	c → 0.0543429
Confidence Interval	18.9639 21.5621	-0.00792057 -0.00223435	0.0501713 0.0585145