In[61]:=
```
distr00b = {{1, 90.0}, {3, 85.3}, {5, 83.5}, {7, 82.3}, {9, 82.2}, {11, 81.0},
   {13, 81.3}, {15, 78.9}, {17, 78.1}, {19, 77.1}, {21, 74.6}, {23, 72.9},
   {25, 70.6}, {27, 70.5}, {29, 70.9}, {31, 69.4}, {33, 63.8}, {35, 65.7},
   {37, 63.0}, {39, 61.1}, {41, 59.3}, {43, 58}, {45, 60.2}, {47, 55.6}, {49, 50.2},
   {51, 48.2}, {53, 45}, {55, 53.6}, {57, 42.0}, {59, 41.5}, {61, 42.3}, {63, 41.3},
   {65, 43.2}, {67, 40.5}, {69, 38.5}, {71, 37.4}, {73, 39.8}, {74, 42.3}};
Pt1 = C1 Exp[- t/T2];
fit1 = NonlinearModelFit[distr00b, Pt1, {C1, T2}, t]
```

Out[63]=
$$\text{FittedModel}\left[\, 93.0048\, e^{-0.0116802\, t} \,\right]$$

In[78]:=
```
Error1 =
 1/38 Sum[93.00481931102193` * Exp[-0.01168018237400154` * distr00b[[i]][[1]]] - distr00b[[i]][[2]],
   {i, 1, 38}]
```

Out[78]=
```
0.0496916
```

In[83]:=
```
Pt2 = C2 Exp[-(t/T2b)^2];
fit2 = NonlinearModelFit[distr00b, Pt2, {C2, T2b}, t]
```

Out[84]=
```
FittedModel[ 81.8011 e^(-0.000168592 t^2) ]
```

In[94]:=
```
Error2 = 1/38 Sum[81.80108418850922` * Exp[-0.0001685923200164316` * (distr00b[[i]][[1]])^2] -
    distr00b[[i]][[2]], {i, 1, 38}]
```

Out[94]=
```
-0.0848458
```

In[88]:=
```
fit3 = LinearModelFit[distr00b, t, t]
```

Out[88]=
```
FittedModel[ 89.2806 – 0.728734 t ]
```

In[93]:=
```
Error3 = 1/38
  Sum[89.28062790822062` – 0.7287344840695658` * distr00b[[i]][[1]] – distr00b[[i]][[2]], {i, 1, 38}]
```

Out[93]=
$$7.66638 \times 10^{-15}$$

In[89]:=
```
Show[ListPlot[distr00b], Plot[{fit1[t], fit2[t], fit3[t]}, {t, 0, 80}], Frame → True]
```

Out[89]=