```
log 2 = distr00b = \{\{1, 88.6\}, \{3, 88.1\}, \{5, 85.9\}, \{7, 85.1\}, \{9, 83.5\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{11, 83.1\}, \{
                                    \{13, 81.4\}, \{15, 79.2\}, \{17, 79\}, \{19, 76.3\}, \{21, 74.3\}, \{23, 73.4\},
                                    {25, 71.4}, {27, 68.4}, {29, 68.8}, {31, 67.8}, {33, 63}, {35, 64.3}, {37, 61.9},
                                    {39, 59.6}, {41, 59.3}, {43, 58.4}, {45, 58}, {47, 55.4}, {49, 51.4}, {51, 47.5},
                                    {53, 46.9}, {55, 48.7}, {57, 443.4}, {59, 43.6}, {61, 43.5}, {63, 42.2},
                                    {65, 42.7}, {67, 41.6}, {69, 39.9}, {71, 39.8}, {73, 39.2}, {74, 40.5}};
                     Pt1 = C1 Exp\left[-\frac{t}{T2}\right];
                     fit1 = NonlinearModelFit[distr00b, Pt1, {C1, T2}, t]
Out[34]= FittedModel [84.7931 e^{-0.00433558t}]
 ln[22] = Error1 = \frac{1}{38} Sum[84.7931 * Exp[-0.00433558 * distr00b[i]][1]] - distr00b[i][2], \{i, 1, 38\}]
Out[22]= 0.00643778
 In[35]:= Show[ListPlot[distr00b],
                          Plot[fit1[t], {t, 0, 80}, PlotLegends \rightarrow { "Pt1=C1*Exp[-\frac{t}{T2}]"}], Frame \rightarrow True]
                       140
                      120
                       100
                        80
                                                                                                                                                                                                                                                                 Pt1=C1*Exp[-\frac{t}{T2}]
Out[35]=
                        60
                        40
                        20
```

10

20

30

40

50

60

70

$$ln[23]:= Pt2 = C2 Exp \left[-\left(\frac{t}{T2h}\right)^2 \right];$$

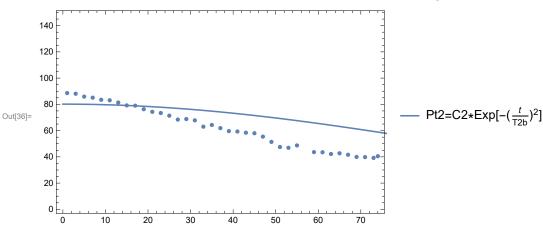
fit2 = NonlinearModelFit[distr00b, Pt2, {C2, T2b}, t]

$$ln[25]:= Error2 = \frac{1}{38} Sum \left[80.1676 * Exp \left[-0.000056425 * \left(distr00b [i] [1] \right)^{2} \right] - distr00b [i] [2], \{i, 1, 38\} \right]$$

Out[25]= **0.0224408**

In[36]:= Show[ListPlot[distr00b],

Plot[fit2[t], {t, 0, 80}, PlotLegends
$$\rightarrow$$
 { "Pt2=C2*Exp[-($\frac{t}{T2b}$)²]"}], Frame \rightarrow True]



```
(* Pt3= C3*t + b *)
```

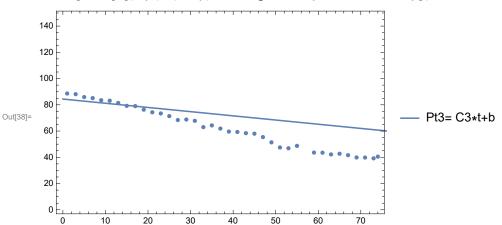
In[26]:= fit3 = LinearModelFit[distr00b, t, t]

 $ln[27] = Error3 = \frac{1}{38} Sum[84.3739 - 0.3195478 * distr00b[i][1] - distr00b[i][2], {i, 1, 38}]$

Out[27]= 0.0000190684

In[38]:= Show[ListPlot[distr00b],

 $Plot[fit3[t], \{t, 0, 80\}, PlotLegends \rightarrow \{ "Pt3= C3*t+b" \}], Frame \rightarrow True]$



{ "Pt1=C1*Exp[$-\frac{t}{T2}$]", "Pt2=C2*Exp[$-(\frac{t}{T2b})^2$]", "Pt3= C3*t+b"}], Frame → True]

