```
Fit P(t) = C \exp\left(-\frac{t}{T_2}\right)
```

```
distr00 = \{\{1, 90.0\}, \{5, 83.5\}, \{10, 82.1\}, \{15, 78.9\},
 In[8]:=
              \{20, 74.6\}, \{25, 70.6\}, \{30, 68.4\}, \{35, 65.7\}, \{40, 61.0\}, \{45, 60.2\},
              {50, 52.9}, {55, 53.6}, {60, 49.4}, {65, 43.2}, {70, 43.7}, {74, 42.3}};
          Pt1 = C1 Exp\left[-\frac{t}{T2}\right];
          fit1 = FindFit[distr00, Pt1, {C1, T2}, t]
          \{C1 \rightarrow 90.9493, T2 \rightarrow 98.2161\}
Out[10]=
          Pf1 = Function[{t}, Evaluate[Pt1 /. fit1]]
In[11]:=
          Function [ \{t\}, 90.9493 e^{-0.0101816 t} ]
Out[11]=
 In[7]:=
          Plot[Pf1[t], {t, 0, 80}, Epilog → Map[Point, distr00]]
          90
          80
          70
Out[7]=
          60
          50
```

Fit $P(t) = C \exp\left[-\left(\frac{t}{T_2}\right)^2\right]$

20

40

60

