## **Modeling Shuttlecock Data**

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Notebook to support Exercise 2.2.9, the fall of a shuttlecock with air resistance.

The data, in time/distance pairs:

A plot:

In[2]:= **plt1 =** 

ListPlot[data, AxesLabel  $\rightarrow$  {"Time (seconds)", "Distance (meters)"}, PlotStyle  $\rightarrow$  {Red}] Now use g = 9.8, take a guess at k (k=1 is a good start), plot d(t) from part (b), and compare to the data.