Specific Resistivity as a Function of Temperature

- Here is a plot of the specific resistivity vs. temperature for some metals.
 - The resistivity seems to go to 0 for 0 K. This is not really true, cf. the detailed curve for Na.
 - Still, simple free electron theory predicts zero resistance at **0 K**, and trying to see if that is true was one of the driving forces behind the discovery of superconductivity by **Kammerlingh Onnes** in **1911**.

