

```

(*Exp11*)
temperature = Range[50, 100, 5];
volts = {0, 0.56, 1.35, 2.31, 3.20, 4.00, 4.80, 5.63, 6.40, 7.35, 8.10};
coordinatesExp11 = Transpose[{temperature, volts}];
linearFitExp11 = LinearModelFit[coordinatesExp11, x, x];
PlotGraph = ListPlot[
  coordinatesExp11,
  PlotMarkers → {Automatic, 18},
  PlotStyle → Black,
  GridLines → Automatic,
  GridLinesStyle → Directive[Black, Dashed],
  Frame → Automatic,
  FrameLabel → {"T/°C", "V/V"},
  PlotLabel → "Pt100热电偶",
  BaseStyle → {FontWeight → "Bold", FontSize → 18}
];
regressionExp11 = Plot[Normal[linearFitExp11],
{x, Max[temperature], Min[temperature]}],
PlotStyle → {Black, Thick}];
errorExp11 = Max[Abs[linearFitExp11["FitResiduals"]]] /
(Max[temperature] - Min[temperature]) // ScientificForm
Show[PlotGraph, regressionExp11]

```

Out[106]/ScientificForm=

$$3.31818 \times 10^{-3}$$



