

```
In[676]:= xData = {0.0, 0.035, 0.070, 0.105, 0.140, 0.175,  
0.210, 0.245, 0.280, 0.310, -0.035, -0.070, -0.105, -0.140,  
-0.175, -0.210, -0.245, -0.280, -0.315, -0.350, -0.385, -0.420 }
```

```
Out[676]= {0., 0.035, 0.07, 0.105, 0.14, 0.175, 0.21, 0.245, 0.28, 0.31, -0.035, -0.07,  
-0.105, -0.14, -0.175, -0.21, -0.245, -0.28, -0.315, -0.35, -0.385, -0.42}
```

ThetaMin

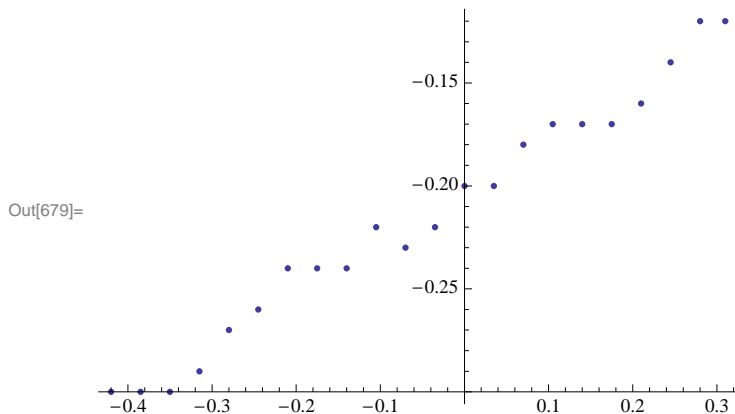
```
In[677]:= thetaMinData = {-0.2, -0.2, -0.18, -0.17, -0.17, -0.17, -0.16, -0.14, -0.12, -0.12, -0.22,  
-0.23, -0.22, -0.24, -0.24, -0.24, -0.26, -0.27, -0.29, -0.30, -0.30, -0.30, -0.30 }
```

```
Out[677]= {-0.2, -0.2, -0.18, -0.17, -0.17, -0.17, -0.16, -0.14, -0.12, -0.12, -0.22,  
-0.23, -0.22, -0.24, -0.24, -0.24, -0.26, -0.27, -0.29, -0.3, -0.3, -0.3, -0.3}
```

```
In[678]:= thetaMinPoints = Table[{xData[[i]], thetaMinData[[i]]}, {i, 1, Length[xData]}]
```

```
Out[678]= {{0., -0.2}, {0.035, -0.2}, {0.07, -0.18}, {0.105, -0.17},  
{0.14, -0.17}, {0.175, -0.17}, {0.21, -0.16}, {0.245, -0.14}, {0.28, -0.12},  
{0.31, -0.12}, {-0.035, -0.22}, {-0.07, -0.23}, {-0.105, -0.22},  
{-0.14, -0.24}, {-0.175, -0.24}, {-0.21, -0.24}, {-0.245, -0.26},  
{-0.28, -0.27}, {-0.315, -0.29}, {-0.35, -0.3}, {-0.385, -0.3}, {-0.42, -0.3}}
```

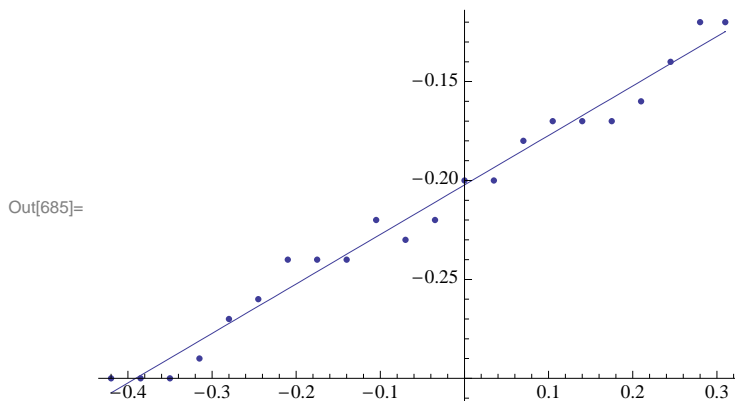
```
ListPlot[thetaMinPoints]
```



```
In[683]:= fit1 = FindFit[thetaMinPoints, a + b*y, {a, b}, y]
```

```
Out[683]= {a → -0.202265, b → 0.25014}
```

```
In[685]:= Show[ListPlot[thetaMinPoints], Plot[a + b*y /. fit1, {y, -0.42, 0.31}]]
```



ThetaMax

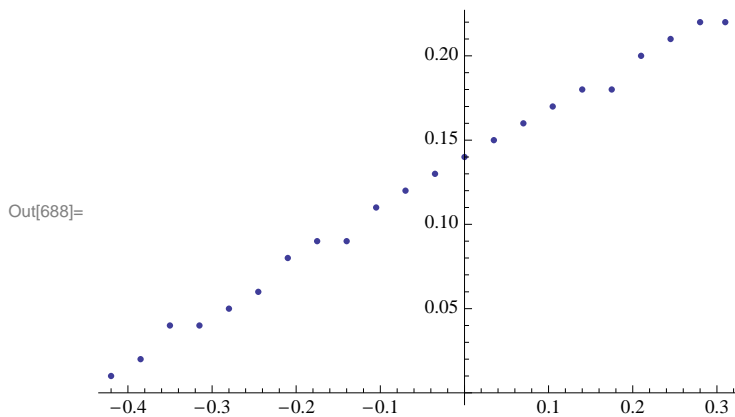
```
In[686]:= thetaMaxData = {0.14, 0.15, 0.16, 0.17, 0.18, 0.18, 0.20, 0.21, 0.22, 0.22,
  0.13, 0.12, 0.11, 0.09, 0.09, 0.08, 0.06, 0.05, 0.04, 0.04, 0.02, 0.01}
```

```
Out[686]= {0.14, 0.15, 0.16, 0.17, 0.18, 0.18, 0.2, 0.21, 0.22, 0.22,
  0.13, 0.12, 0.11, 0.09, 0.09, 0.08, 0.06, 0.05, 0.04, 0.04, 0.02, 0.01}
```

```
In[687]:= thetaMaxPoints = Table[{xData[[i]], thetaMaxData[[i]]}, {i, 1, Length[xData]}]
```

```
Out[687]= {{0., 0.14}, {0.035, 0.15}, {0.07, 0.16}, {0.105, 0.17}, {0.14, 0.18}, {0.175, 0.18},
  {0.21, 0.2}, {0.245, 0.21}, {0.28, 0.22}, {0.31, 0.22}, {-0.035, 0.13}, {-0.07, 0.12},
  {-0.105, 0.11}, {-0.14, 0.09}, {-0.175, 0.09}, {-0.21, 0.08}, {-0.245, 0.06},
  {-0.28, 0.05}, {-0.315, 0.04}, {-0.35, 0.04}, {-0.385, 0.02}, {-0.42, 0.01}}
```

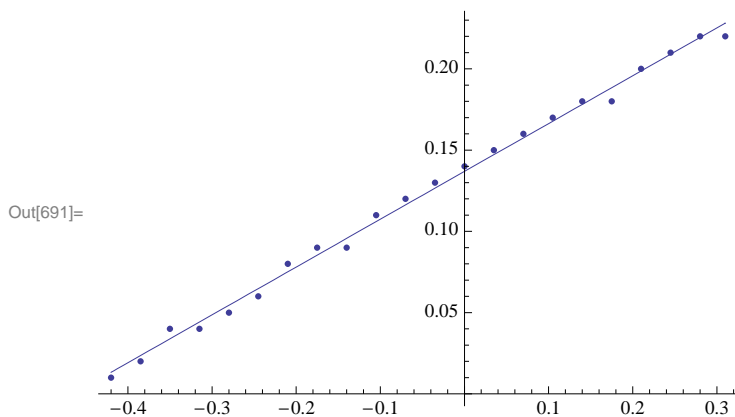
```
In[688]:= ListPlot[thetaMaxPoints]
```



```
In[690]:= fit2 = FindFit[thetaMaxPoints, a + b*y, {a, b}, y]
```

```
Out[690]= {a -> 0.136882, b -> 0.294317}
```

```
In[691]:= Show[ListPlot[thetaMaxPoints], Plot[a + b*y /. fit2, {y, -0.42, 0.31}]]
```



Parameter D

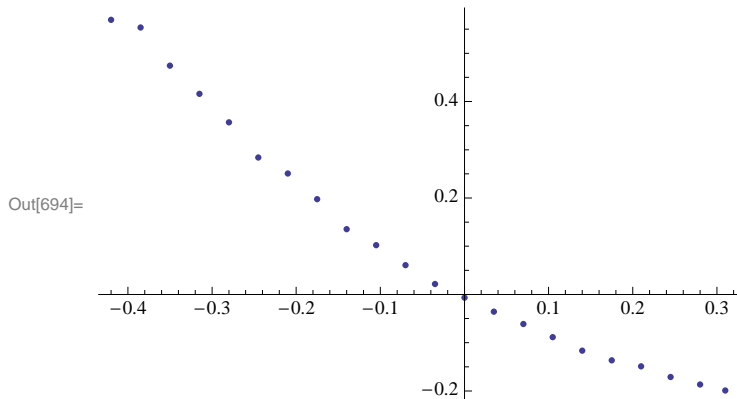
```
In[692]:= parameterDData = {-0.00647944, -0.0355317, -0.0613432, -0.0885205, -0.11655, -0.136587,
  -0.148857, -0.171177, -0.186836, -0.199156, 0.021702, 0.0605701, 0.102354, 0.135523,
  0.197576, 0.250622, 0.283811, 0.356899, 0.415887, 0.474355, 0.55364, 0.569349}
```

```
Out[692]= {-0.00647944, -0.0355317, -0.0613432, -0.0885205, -0.11655, -0.136587, -0.148857,
  -0.171177, -0.186836, -0.199156, 0.021702, 0.0605701, 0.102354, 0.135523,
  0.197576, 0.250622, 0.283811, 0.356899, 0.415887, 0.474355, 0.55364, 0.569349}
```

```
In[693]:= parameterDPoints = Table[{xData[[i]], parameterDData[[i]]}, {i, 1, Length[xData]}]
```

```
Out[693]= {{0., -0.00647944}, {0.035, -0.0355317}, {0.07, -0.0613432},
{0.105, -0.0885205}, {0.14, -0.11655}, {0.175, -0.136587},
{0.21, -0.148857}, {0.245, -0.171177}, {0.28, -0.186836}, {0.31, -0.199156},
{-0.035, 0.021702}, {-0.07, 0.0605701}, {-0.105, 0.102354}, {-0.14, 0.135523},
{-0.175, 0.197576}, {-0.21, 0.250622}, {-0.245, 0.283811}, {-0.28, 0.356899},
{-0.315, 0.415887}, {-0.35, 0.474355}, {-0.385, 0.55364}, {-0.42, 0.569349}}
```

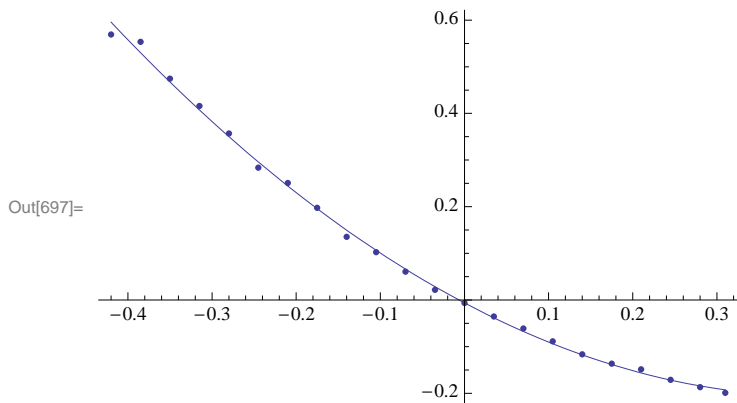
```
In[694]:= ListPlot[parameterDPoints]
```



```
In[696]:= fit3 = FindFit[parameterDPoints, a + b*y + c*y^2, {a, b, c}, y]
```

```
Out[696]= {a -> -0.00623434, b -> -0.954544, c -> 1.1391}
```

```
In[697]:= Show[ListPlot[parameterDPoints], Plot[a + b*y + c*y^2 /. fit3, {y, -0.42, 0.31}]]
```



Parameter C

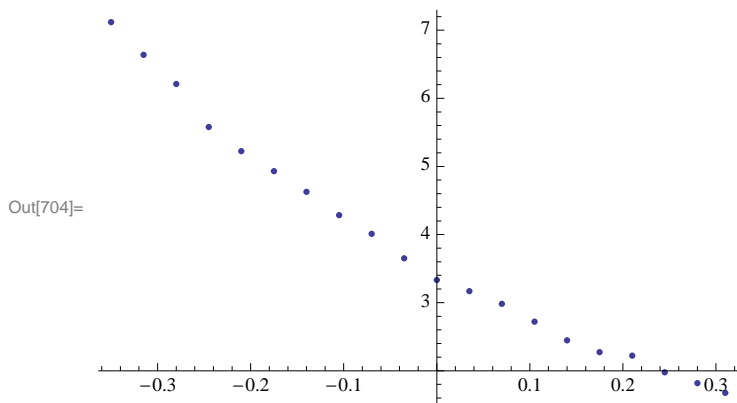
```
In[698]:= parameterCData = {3.33335, 3.16968, 2.98353, 2.72128, 2.4465, 2.2736,
2.22239, 1.97752, 1.81807, 1.67571, 3.65064, 4.00968, 4.28407, 4.62829,
4.93102, 5.22427, 5.57952, 6.21019, 6.6393, 7.11788, 7.20648, 6.91998}
```

```
Out[698]= {3.33335, 3.16968, 2.98353, 2.72128, 2.4465, 2.2736, 2.22239,
1.97752, 1.81807, 1.67571, 3.65064, 4.00968, 4.28407, 4.62829,
4.93102, 5.22427, 5.57952, 6.21019, 6.6393, 7.11788, 7.20648, 6.91998}
```

```
In[703]:= parameterCPoints = Table[{xData[[i]], parameterCData[[i]]}, {i, 1, Length[xData] - 2}]
```

```
Out[703]= {{0., 3.33335}, {0.035, 3.16968}, {0.07, 2.98353}, {0.105, 2.72128},
{0.14, 2.4465}, {0.175, 2.2736}, {0.21, 2.22239}, {0.245, 1.97752},
{0.28, 1.81807}, {0.31, 1.67571}, {-0.035, 3.65064}, {-0.07, 4.00968},
{-0.105, 4.28407}, {-0.14, 4.62829}, {-0.175, 4.93102}, {-0.21, 5.22427},
{-0.245, 5.57952}, {-0.28, 6.21019}, {-0.315, 6.6393}, {-0.35, 7.11788}}
```

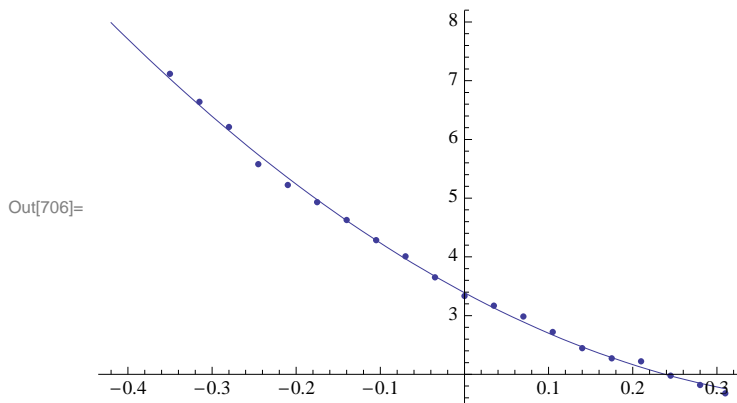
```
In[704]:= ListPlot[parameterCPoints]
```



```
In[705]:= fit4 = FindFit[parameterCPoints, a + b*y + c*y^2, {a, b, c}, y]
```

```
Out[705]= {a -> 3.39098, b -> -7.68195, c -> 7.76604}
```

```
In[706]:= Show[ListPlot[parameterCPoints], Plot[a + b*y + c*y^2 /. fit4, {y, -0.42, 0.31}]]
```



Parameter B

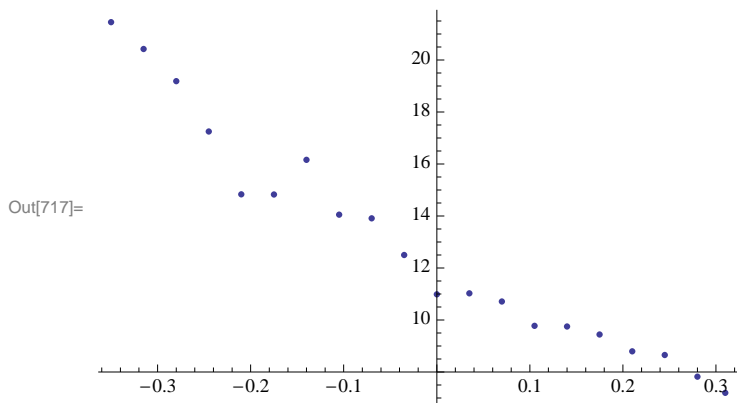
```
In[707]:= parameterBData = {10.9876, 11.0254, 10.7132, 9.77458, 9.75175, 9.44371,
  8.79157, 8.65562, 7.82282, 7.1975, 12.5004, 13.9117, 14.0511, 16.1596,
  14.8227, 14.8316, 17.2507, 19.181, 20.4188, 21.4516, 19.1671, 16.9543}
```

```
Out[707]= {10.9876, 11.0254, 10.7132, 9.77458, 9.75175, 9.44371,
  8.79157, 8.65562, 7.82282, 7.1975, 12.5004, 13.9117, 14.0511, 16.1596,
  14.8227, 14.8316, 17.2507, 19.181, 20.4188, 21.4516, 19.1671, 16.9543}
```

```
In[716]:= parameterBPoints = Table[{xData[[i]], parameterBData[[i]]}, {i, 1, Length[xData] - 2}]
```

```
Out[716]= {{0., 10.9876}, {0.035, 11.0254}, {0.07, 10.7132}, {0.105, 9.77458},
  {0.14, 9.75175}, {0.175, 9.44371}, {0.21, 8.79157}, {0.245, 8.65562},
  {0.28, 7.82282}, {0.31, 7.1975}, {-0.035, 12.5004}, {-0.07, 13.9117},
  {-0.105, 14.0511}, {-0.14, 16.1596}, {-0.175, 14.8227}, {-0.21, 14.8316},
  {-0.245, 17.2507}, {-0.28, 19.181}, {-0.315, 20.4188}, {-0.35, 21.4516}}
```

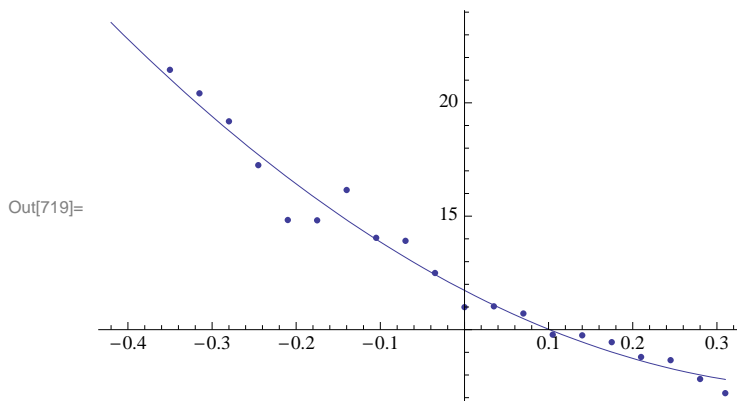
```
In[717]:= ListPlot[parameterBPoints]
```



```
In[718]:= fit5 = FindFit[parameterBPoints, a + b*y + c*y^2, {a, b, c}, y]
```

```
Out[718]= {a -> 11.7304, b -> -19.2305, c -> 21.1691}
```

```
In[719]:= Show[ListPlot[parameterBPoints], Plot[a + b*y + c*y^2 /. fit5, {y, -0.42, 0.31}]]
```



Parameter A

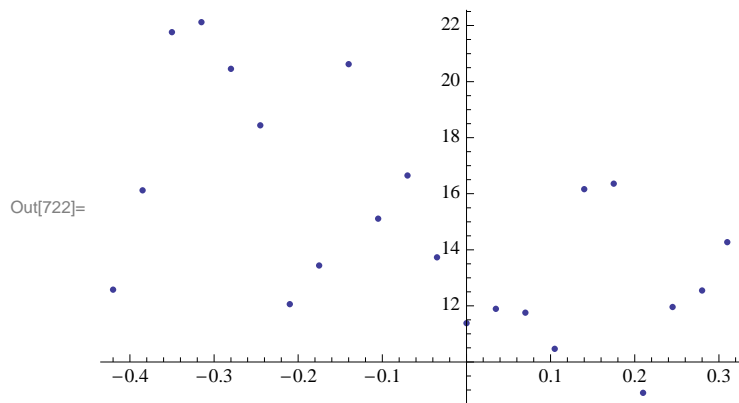
```
In[720]:= parameterAData = {11.3826, 11.8946, 11.7563, 10.4657, 16.1649, 16.3601,
  8.89655, 11.9577, 12.5457, 14.274, 13.7327, 16.6537, 15.1097, 20.6233,
  13.4402, 12.0602, 18.4406, 20.4572, 22.1207, 21.7656, 16.1192, 12.5768}
```

```
Out[720]= {11.3826, 11.8946, 11.7563, 10.4657, 16.1649, 16.3601,
  8.89655, 11.9577, 12.5457, 14.274, 13.7327, 16.6537, 15.1097, 20.6233,
  13.4402, 12.0602, 18.4406, 20.4572, 22.1207, 21.7656, 16.1192, 12.5768}
```

```
In[721]:= parameterAPoints = Table[{xData[[i]], parameterAData[[i]]}, {i, 1, Length[xData]}]
```

```
Out[721]= {{0., 11.3826}, {0.035, 11.8946}, {0.07, 11.7563}, {0.105, 10.4657}, {0.14, 16.1649},
  {0.175, 16.3601}, {0.21, 8.89655}, {0.245, 11.9577}, {0.28, 12.5457}, {0.31, 14.274},
  {-0.035, 13.7327}, {-0.07, 16.6537}, {-0.105, 15.1097}, {-0.14, 20.6233},
  {-0.175, 13.4402}, {-0.21, 12.0602}, {-0.245, 18.4406}, {-0.28, 20.4572},
  {-0.315, 22.1207}, {-0.35, 21.7656}, {-0.385, 16.1192}, {-0.42, 12.5768}}
```

```
In[722]:= ListPlot[parameterAPoints]
```



```
In[723]:= fit6 = FindFit[parameterAPoints, a + b*y + c*y^2, {a, b, c}, y]
```

```
Out[723]= {a -> 14.3041, b -> -8.67694, c -> 3.53875}
```

```
In[724]:= Show[ListPlot[parameterAPoints], Plot[a + b*y + c*y^2 /. fit6, {y, -0.42, 0.31}]]
```

