

```

In[80]:= Import["C:\\\\Users\\\\Juntao Yu\\\\Desktop\\\\Enzyme Activity\\\\iT.xlsx"]

In[83]:= data = {{2., 176.5594777562863`}, {1.4285714285714286`, 149.5596668487166`}, {0.8, 139.93037812979054`}, {0.6060606060606061`, 134.63311209439533`}, {0.4, 125.1571069469836`}};

In[81]:= Import["C:\\\\Users\\\\Juntao Yu\\\\Desktop\\\\Enzyme Activity\\\\iT1.xlsx"]

In[85]:= data1 = {{2., 2226.371951219485`}, {1.4285714285714286`, 1041.2309885931509`}, {1., 468.10897435897357`}, {0.8, 367.0827747989273`}, {0.6060606060606061`, 280.29042988741037`}, {0.4, 225.38580246913577`}};

In[82]:= Import["C:\\\\Users\\\\Juntao Yu\\\\Desktop\\\\Enzyme Activity\\\\iT2.xlsx"]

In[86]:= data2 = {{2., 1131.585743801647`}, {1., 789.1750720461067`}, {0.8, 918.9387583892579`}, {0.6060606060606061`, 504.31629834254056`}};

In[102]:= a1 = LinearModelFit[data, x, x]

Out[102]= FittedModel[
$$y = 176.5594777562863 + 149.5596668487166x$$
]

In[103]:= b1 = LinearModelFit[data1, x, x]
c1 = LinearModelFit[data2, x, x]

Out[103]= FittedModel[
$$y = -468.10897435897357 + 367.0827747989273x$$
]

Out[104]= FittedModel[
$$y = 1131.585743801647 + 789.1750720461067x$$
]

In[106]:= Show[Plot[a1[x], {x, -1.5, 2}], Plot[b1[x], {x, -1.5, 2}],
  Plot[c1[x], {x, -1.5, 2}], ListPlot[data], ListPlot[data1], ListPlot[data2],
  PlotRange -> {0, 500}, PlotLabel -> "Inhibitor Configuration II",
  AxesLabel -> {"1/[S],1/mM", "1/V,min/umol"}]

Out[106]= Inhibitor Configuration II

$$\frac{1}{V,\text{min}/\mu\text{mol}}$$


| $\frac{1}{[S]}, \text{1/mM}$ | $\frac{1}{V}, \text{min}/\mu\text{mol}$ (Series a1) | $\frac{1}{V}, \text{min}/\mu\text{mol}$ (Series b1) | $\frac{1}{V}, \text{min}/\mu\text{mol}$ (Series c1) |
|------------------------------|-----------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------|
| -1.0                         | ~176                                                | ~176                                                | ~176                                                |
| 0.0                          | ~149                                                | ~468                                                | ~1131                                               |
| 0.5                          | ~134                                                | ~264                                                | ~918                                                |
| 1.0                          | ~125                                                | ~367                                                | ~789                                                |
| 1.5                          | ~125                                                | ~468                                                | ~504                                                |


```

