

```

In[146]:= Needs["IdentifiabilityAnalysis`"]
          startTime = AbsoluteTime[]

Out[147]= 3.6878004675512553 × 109

In[148]:= vars = {x1}

Out[148]= {x1}

In[149]:= params = {k1, k2, k3}

Out[149]= {k1, k2, k3}

In[150]:= sys = {x1'[t] == k1 - k2 * x1[t] / (k3 + x1[t]),
                  x1[0] == 0}

Out[150]=  $\left\{x_1'[t] == k_1 - \frac{k_2 x_1[t]}{k_3 + x_1[t]}, x_1[0] == 0\right\}$ 

In[151]:= output = {x1[t]}

Out[151]= {x1[t]}

In[152]:= iad = IdentifiabilityAnalysis[{sys, output}, vars, params, t, {u1}]

Out[152]= IdentifiabilityAnalysisData[True, <>]

In[153]:= iad["IdentifiableQ"]

Out[153]= True

In[154]:= iad["DegreesOfFreedom"]

Out[154]= 0

In[155]:= iad["NonIdentifiableParameters"]

Out[155]= {}

In[156]:= endTime = AbsoluteTime[]
          N[endTime - startTime]

Out[156]= 3.6878004677049334 × 109

Out[157]= 0.153678

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