Region Plots final

In[45]:=
```
costC = 0.7;
```

In[56]:=
```
lineStyle = {Thick, Gray, Dashed};
line1 = Line[{{costC, 0}, {costC, 1}}];
```

SD alone

In[82]:=
```
Pnn[e_] := -1 - e;
```

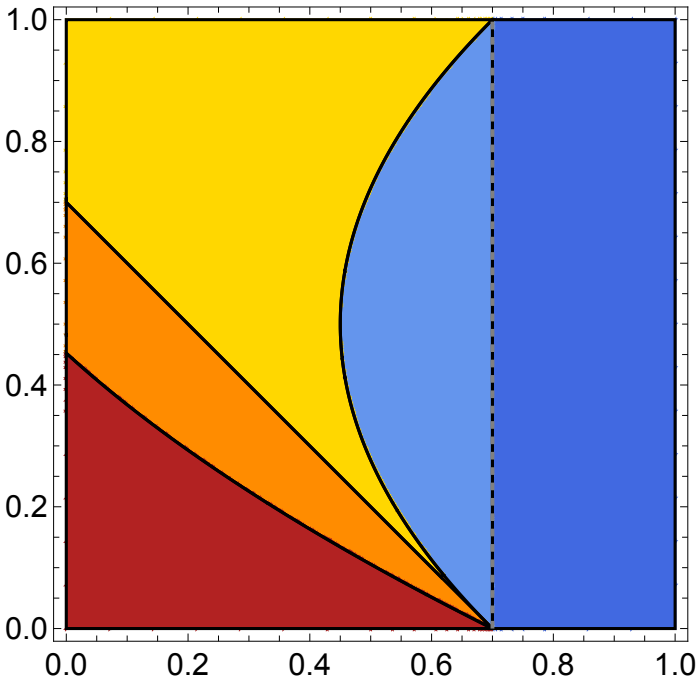
In[83]:=
```
Pnc[x_, e_] := -1 × (1 - x) - e;
```

In[84]:=
```
Pcn[x_] := -1 × (1 - x) - costC;
```

In[85]:=
```
Pcc[x_] := -1 × (1 - x) × (1 - x) - costC;
```

In[91]:=
```
RegionPlot[
 {Pcc[x] > Pcn[x] > Pnc[x, e] > Pnn[e],
Pcc[x] > Pnc[x, e] > Pcn[x] > Pnn[e],
Pnc[x, e] > Pcc[x] > Pcn[x] > Pnn[e],
Pnc[x, e] > Pcc[x] > Pnn[e] > Pcn[x],
Pnc[x, e] > Pnn[e] > Pcc[x] > Pcn[x]
 } ,
{e, 0, 1}, {x, 0, 1},
FrameTicksStyle → Directive[Black, 16],
MaxRecursion → 8,
PlotPoints → {Automatic, {{1.6, 0}}},
(*PlotLegends → "Expressions",*)
BoundaryStyle → Black,
PlotStyle → {
ColorData["HTML", "RoyalBlue"],
ColorData["HTML", "CornflowerBlue"],
ColorData["HTML", "Gold"],
ColorData["HTML", "DarkOrange"],
ColorData["HTML", "Firebrick"]},
Epilog → {Directive[lineStyle], line1}
]
```

Out[91]=



In[ ]:=
```
ColorData["HTML", "ColorRules"]

ColorData["HTML", "CornflowerBlue"]
```

Out[ ]=

SD alone + IP

In[92]:=
```
Pnn[e_] := -1;
```

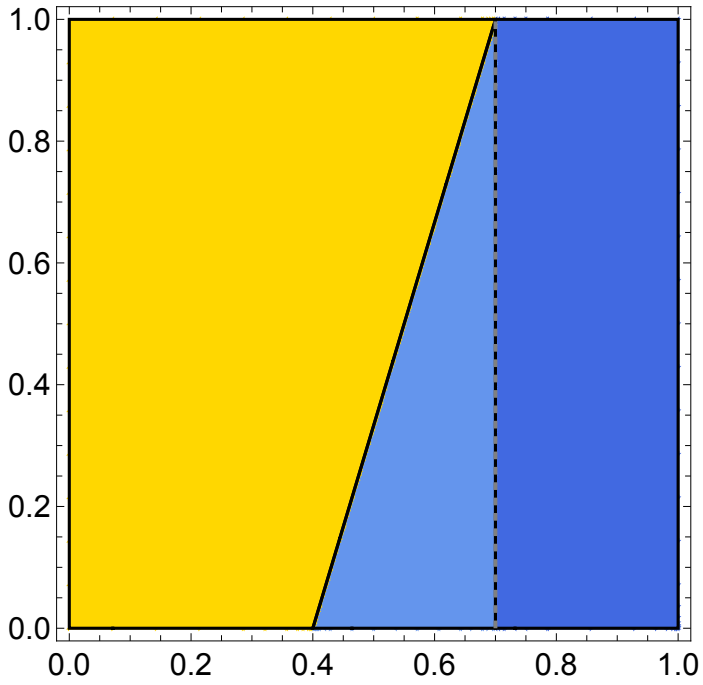
In[93]:=
```
Pnc[x_, e_] := -1 × (1 - x) - e x;
```

In[94]:=
```
Pcn[x_] := -1 × (1 - x) - costC x;
```

In[95]:=
```
Pcc[x_] := -1 (1 - x)^2 - costC (1 - (1 - x)^2);
```

In[96]:=
```
RegionPlot[
 {Pcc[x] > Pcn[x] > Pnc[x, e] > Pnn[e],
Pcc[x] > Pnc[x, e] > Pcn[x] > Pnn[e],
Pcc[x] > Pnc[x, e] > Pnn[e] > Pcn[x],
Pnc[x, e] > Pcc[x] > Pcn[x] > Pnn[e],
Pnc[x, e] > Pcc[x] > Pnn[e] > Pcn[x]
 } ,
{e, 0, 1}, {x, 0, 1},
FrameTicksStyle → Directive[Black, 16],
MaxRecursion → 8,
PlotPoints → {Automatic, {{1.6, 0}}},
(*PlotLegends → "Expressions",*)
BoundaryStyle → Black,
PlotStyle → {
ColorData["HTML", "RoyalBlue"],
ColorData["HTML", "CornflowerBlue"],
ColorData["HTML", "ForestGreen"],
ColorData["HTML", "Gold"],
ColorData["HTML", "DarkOrange"]},
Epilog → {Directive[lineStyle], line1}
]
```

Out[96]=



TTI alone

In[97]:=
```
Pnn[e_] := -1 - e;
```

In[98]:=
```
Pnc[x_, e_] := -1 × (1 - x) - e;
```

In[99]:=
```
Pcn[x_] := -1 - costC;
```

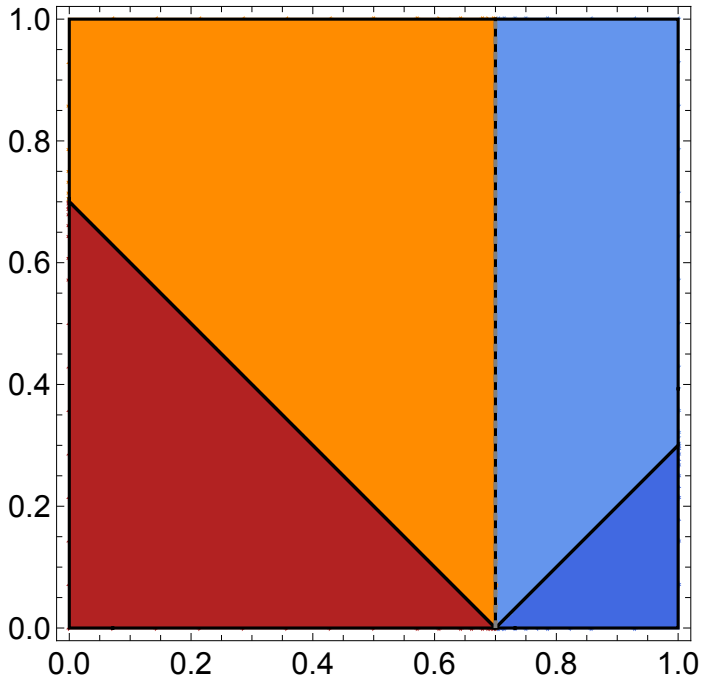
In[100]:=
```
Pcc[x_] := -1 × (1 - x) - costC;
```

In[102]:=
```
RegionPlot[
 {

  Pcc[x] > Pcn[x] > Pnc[x, e] > Pnn[e],
  Pcc[x] > Pnc[x, e] > Pcn[x] > Pnn[e],
  Pnc[x, e] > Pcc[x] > Pnn[e] > Pcn[x],
  Pnc[x, e] > Pnn[e] > Pcc[x] > Pcn[x],


  } ,
{e, 0, 1}, {x, 0, 1},
FrameTicksStyle → Directive[Black, 16],
MaxRecursion → 8,
PlotPoints → {Automatic, {{1.6, 0}}},
(*PlotLegends → "Expressions",*)
BoundaryStyle → Black,
PlotStyle → {
ColorData["HTML", "RoyalBlue"],
ColorData["HTML", "CornflowerBlue"],
ColorData["HTML", "DarkOrange"],
ColorData["HTML", "Firebrick"]},
Epilog → {Directive[{Thick, Gray, Dashed}], line1}
]
```

Out[102]=



TTI alone + IP

In[103]:=
```
Pnn[e_] := -1 - e + e;
(*dummy e just to have this in a function of e for Region Plot to work*)
```

In[104]:=
```
Pnc[x_, e_] := -1 × (1 - x) - e x;
```

In[105]:=
```
Pcn[x_] := -1 - x + x; (* same trick here *)
```

In[106]:=
```
Pcc[x_] := -1 × (1 - x) - costC x;
```

In[107]:=
```
RegionPlot[
 {
Pcc[x] > Pnc[x, e] > Pcn[x],
Pnc[x, e] > Pcc[x] > Pcn[x],
 } ,
{e, 0, 1}, {x, 0, 1},
FrameTicksStyle → Directive[Black, 16],
MaxRecursion → 8,
PlotPoints → {Automatic, {{1.6, 0}}},
(*PlotLegends → "Expressions",*)
BoundaryStyle → Black,
PlotStyle → {
ColorData["HTML", "CornflowerBlue"],
ColorData["HTML", "DarkOrange"]},
Epilog → {Directive[{Thick, Gray, Dashed}], line1}
]
```

Out[107]=