

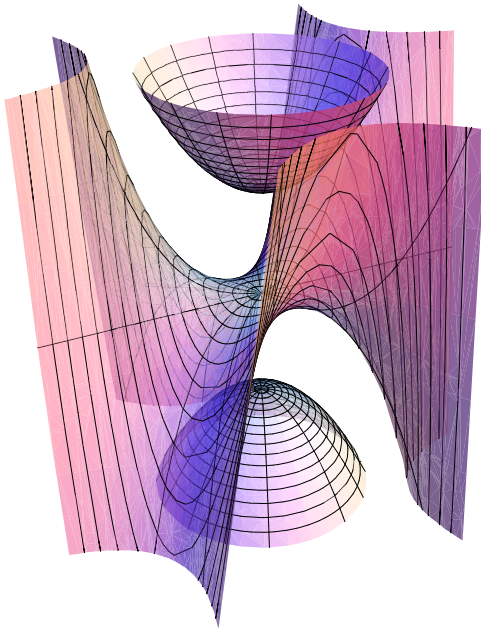
Pensieve Header: The Cubic Saddle, as at <http://www.math.toronto.edu/drorbn/papers/Cobordism/>.

```
In[2]:= SetDirectory["C:\\drorbn\\AcademicPensieve\\2004-03"]
```

```
Out[2]= C:\\drorbn\\AcademicPensieve\\2004-03
```

```
In[1]:= CubicSaddle = ParametricPlot3D[
  {
    {r Cos[t], r Sin[t], 3 r^3 Cos[3 t]},
    {r Cos[t], r Sin[t], 1 + r^2} / 2,
    {r Cos[t], r Sin[t], -1 - r^2} / 2
  },
  {r, 0, 1}, {t, 0, 2 Pi},
  PlotRange → {-1, 1}, Boxed → False, Axes → False, PlotPoints → {10, 30},
  ViewPoint → 0.8 {2.4, -1.2, 1.5}, PlotStyle → Opacity[0.75]
]
```

```
Out[1]=
```



```
In[3]:= Export["CubicSaddle.jvx", CubicSaddle]
```

```
Out[3]= CubicSaddle.jvx
```