

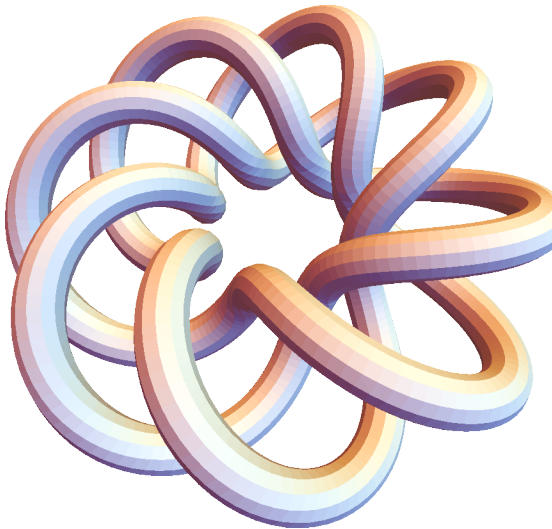
Pensieve header: Drawing a inflated tori, as in classes/0506/Topology.

```
<< KnotTheory`
```

Loading KnotTheory` version of February 2, 2020, 10:53:45.2097.

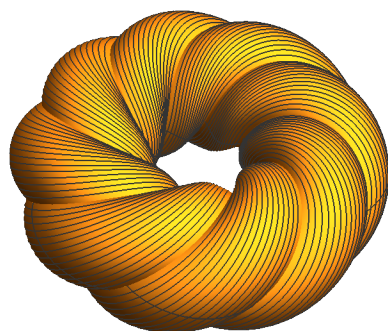
Read more at <http://katlas.org/wiki/KnotTheory>.

```
TubePlot[TorusKnot[8, 3]]
```

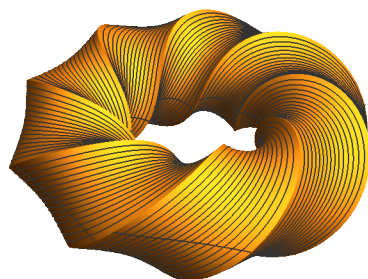


```
TC[r1_, t1_, r2_, t2_] := {
  (r1 + r2 Cos[2 π t2]) Cos[2 π t1],
  (r1 + r2 Cos[2 π t2]) Sin[2 π t1],
  r2 Sin[2 π t2]
};
InflatedTorus[p_, q_, b_] := ParametricPlot3D[
  TC[2, p t - q s,
    1 + b (p^2 + q^2) s (1 - (p^2 + q^2) s), q t + p s],
  {t, 0, 1}, {s, 0, 1/(p^2 + q^2)},
  PlotPoints -> {6 (p^2 + q^2) + 1, 7},
  Boxed -> False, Axes -> False
]
```

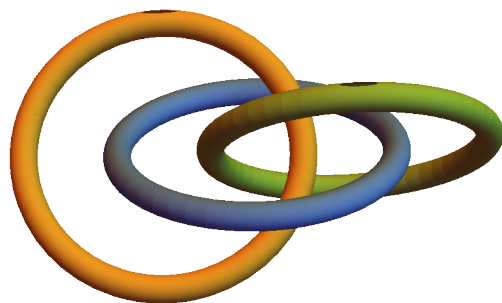
`InflatedTorus[3, 8, 1]`



`InflatedTorus[3, 8, -1]`



```
s = Sqrt[2] / 2;
ParametricPlot3D[
  {{Cos[t], Sin[t], 0}, {-2/3 + Cos[t], s Sin[t], s Sin[t]},
   {2/3 + Cos[t], s Sin[t], -s Sin[t]}}, {t, 0, 2 Pi}, Axes -> False,
  Boxed -> False] /. Line[pts_] -> Tube[pts, 0.1]
```



```
ParametricPlot3D[{{Cos[t], Sin[t], 0},  
  {-4/3 + Cos[t], s Sin[t], s Sin[t]},  
  {4/3 + Cos[t], s Sin[t], -s Sin[t]}}, {t, 0, 2 Pi}, Axes → False,  
Boxed → False] /. Line[pts_] :=> Tube[pts, 0.1]
```

