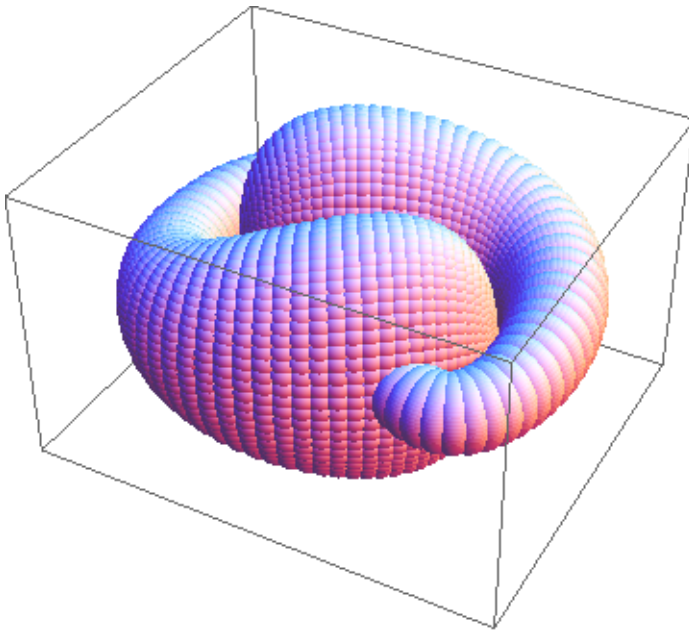


Pensieve header: Make some images of a 4D knot using data from Ester Dalvit.

```
SetDirectory["C:\\drorbn\\AcademicPensieve\\2013-07\\Vis4D"]
C:\\drorbn\\AcademicPensieve\\2013-07\\Vis4D

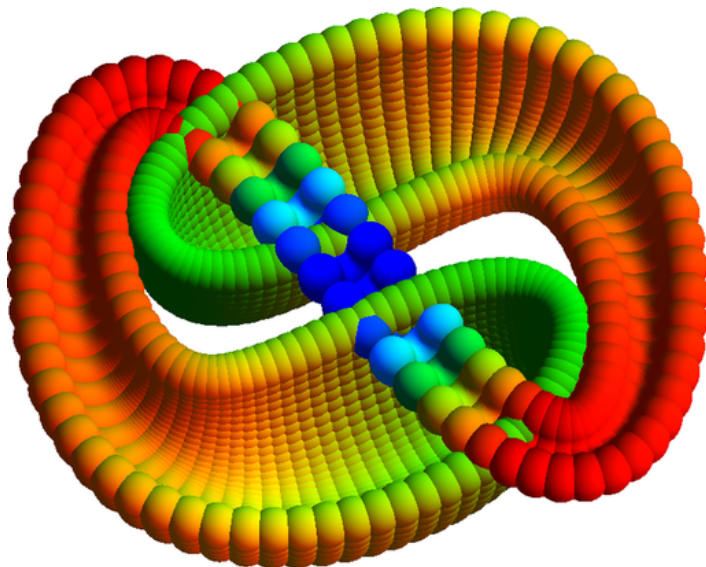
K = P@@@Partition[
  ReadList["Dalvit/coords.txt", Real, 120 * 60 * 4],
  4
];
KR = K;
Do[
  j = RandomInteger[{1, k}];
  If[j ≠ k, KR[{{k, j}}] = KR[{{j, k}}]],
  {k, Length[KR], 2, -1}
]

Graphics3D[K /. P[x_, y_, z_, t_] => Sphere[{x, y, z}, 0.06]] // Rasterize
```



```
{t0, t1} = {Min[Last /@ K], Max[Last /@ K]}
{-1.04297, 1.06666}
```

```
MakeImage["DalvitKnotCut",  
Graphics3D[K /. P[x_, y_, z_, t_] := If[z > 0, {}, {  
  Hue[ $\frac{2(t_1 - t)}{3(t_1 - t_0)}$ ],  
  Sphere[{x, y, z}, 0.06]  
}], ViewPoint -> {0, 5, 10}, Boxed -> False],  
ImageSize -> {800}]
```



```
MakeImage["DalvitKnotFull",  
Graphics3D[{  
  K /. P[x_, y_, z_, t_] := {  
    Hue[ $\frac{2(t_1 - t)}{3(t_1 - t_0)}$ ],  
    Sphere[{x, y, z}, 0.06]  
  }  
}, ViewPoint -> {0, 3, 10}, Boxed -> False],  
ImageSize -> {800}]
```

