

Pensieve Header: Drawing a wen!

```
{r0, r1, r2, r3} = {5, 1, 2, 3}; (* the radii of the bends,  
the narrow, the connect, and the wide *)  
p[u_, v_] := Which[  
  v < 0, (* the narrow tube *)  
    {-r0 + r0 * Cos[v], 0, -r0 * Sin[v]} +  
    (r1 - (r2 - r1) 2 v / Pi) * {-Cos[u] * {-Cos[v], 0, Sin[v]} + {0, Sin[u], 0}},  
  v < Pi, (* the bend *)  
    {((r1 + r3) - (r3 - r1) * Cos[v]) * Cos[u],  
     ((r1 + r3) - (r3 - r1) * Cos[v]) * Sin[u], -(r1 + r3) * Sin[v]} / 2,  
  v < 3 Pi / 2, (* the wide tube *)  
    {r0 + r0 * Cos[v], 0, -r0 * Sin[v]} +  
    (r3 - 2 (r3 - r2) (v - Pi) / Pi) * {Cos[u] * {-Cos[v], 0, Sin[v]} + {0, Sin[u], 0}}  
];  
ParametricPlot3D[  
  p[u, v],  
  {u, 0, 2 Pi}, {v, -Pi / 2, 3 Pi / 2},  
  PlotStyle -> Opacity[0.75], Axes -> None, Boxed -> False  
]
```

