

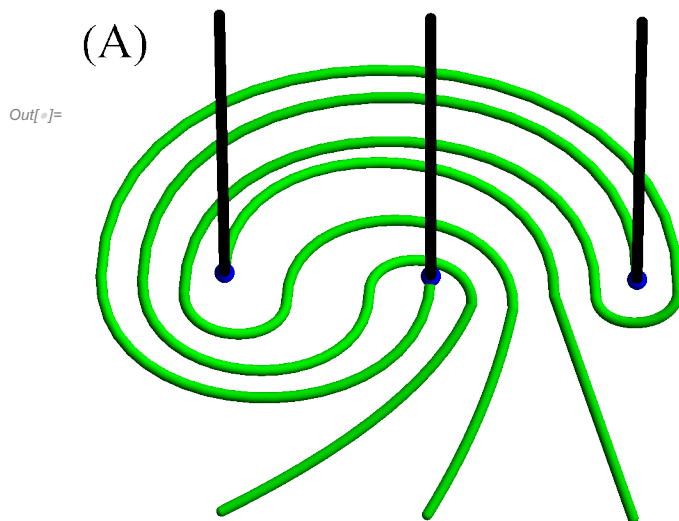
Pensieve header: Generating Figure fig:ReverseGamma.

```

In[ ]:= dh = 0.1; w = 0.01;
Arc[s_, h_, f_, t_] := Tube[BezierCurve[{{f, 0, h dh}, {f, s Abs[t - f] / 2, (h + 1/3) dh},
    {t, s Abs[t - f] / 2, (h + 2/3) dh}, {t, 0, (h + 1) dh}], w];

In[ ]:= g1 = Graphics3D[ {
  w = Scaled[0.003];
  Green,
  {dh = 0.25; Tube[BezierCurve[{{1, -1, 0}, {2, -0.5, 0.5 dh}, {2.2, 0, dh}], w],
  Arc[1, 1, 2.2, 1.7], Arc[-1, 2, 1.7, 0.6], Arc[1, 3, 0.6, 3]},
  {dh = 1/7;
  Tube[BezierCurve[{{2, -1, 0}, {2.3, -0.5, 0.5 dh}, {2.4, 0, dh}], w],
  Arc[1, 1, 2.4, 1.3], Arc[-1, 2, 1.3, 0.8], Arc[1, 3, 0.8, 2.8],
  Arc[-1, 4, 2.8, 3.2], Arc[1, 5, 3.2, 0.4], Arc[-1, 6, 0.4, 2]},
  {dh = 0.5; Tube[BezierCurve[{{3, -1, 0}, {2.6, 0, dh}], w],
  Arc[1, 1, 2.6, 1]},
  Black, H = 8;
  Style[Text["(A)", {0.5, 0, 0.9 H}], FontSize -> 26, FontFamily -> "Times"],
  Tube[Line[{{1, 0, 1}, {1, 0, H}], w],
  Tube[Line[{{2, 0, 1}, {2, 0, H}], w], Tube[Line[{{3, 0, 1}, {3, 0, H}], w],
  Blue, Ball[{{1, 0, 1}, 0.05], Ball[{{2, 0, 1}, 0.05], Ball[{{3, 0, 1}, 0.05]
}, ViewPoint -> {0.126626, -5.97165, 33.3065},
ViewVertical -> {-0.0121184, 0.891873, 0.452123}, Boxed -> False]

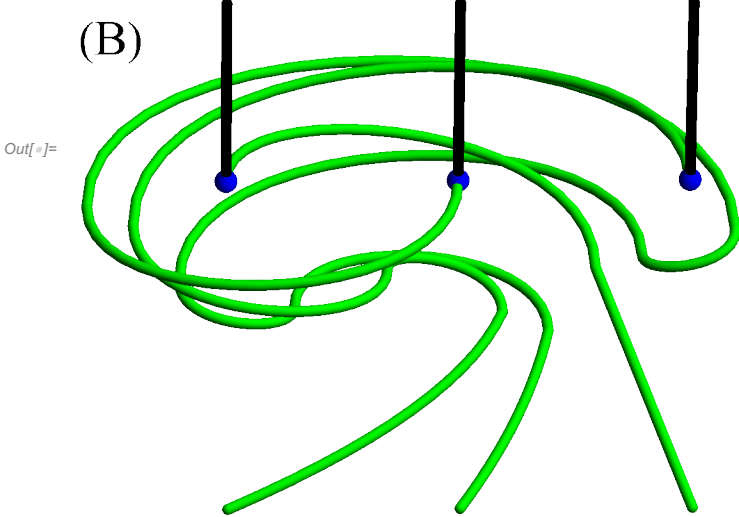
```



```

In[ ]:= g2 = Graphics3D[{
  w = Scaled[0.0055];
  Green,
  {dh = 0.25; Tube[BezierCurve[{{1, -1, 0}, {2, -0.5, 0.5 dh}, {2.2, 0, dh}]], w],
  Arc[1, 1, 2.2, 1.7], Arc[-1, 2, 1.7, 0.6], Arc[1, 3, 0.6, 3]},
  {dh = 1/7;
  Tube[BezierCurve[{{2, -1, 0}, {2.3, -0.5, 0.5 dh}, {2.4, 0, dh}]], w],
  Arc[1, 1, 2.4, 1.3], Arc[-1, 2, 1.3, 0.8], Arc[1, 3, 0.8, 2.8],
  Arc[-1, 4, 2.8, 3.2], Arc[1, 5, 3.2, 0.4], Arc[-1, 6, 0.4, 2]},
  {dh = 0.5; Tube[BezierCurve[{{3, -1, 0}, {2.6, 0, dh}]], w],
  Arc[1, 1, 2.6, 1]},
  Black, H = 2;
  Style[Text["(B)", {0.5, 0, 0.9 H}], FontSize -> 26, FontFamily -> "Times"],
  Tube[Line[{{1, 0, 1}, {1, 0, H}]], w],
  Tube[Line[{{2, 0, 1}, {2, 0, H}]], w], Tube[Line[{{3, 0, 1}, {3, 0, H}]], w],
  Blue, Ball[{{1, 0, 1}, {0.05}], Ball[{{2, 0, 1}, {0.05}], Ball[{{3, 0, 1}, {0.05}]
  }, ViewPoint -> {-0.650017, -25.7217, 21.9766},
  ViewVertical -> {-0.0000262171, 0.401913, 0.915678}, Boxed -> False]

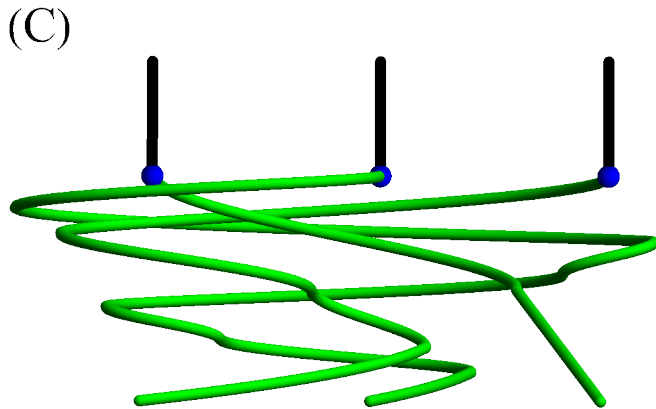
```



```

In[ ]:= g3 = Graphics3D[{
  w = Scaled[0.006];
  Green,
  {dh = 0.25; Tube[BezierCurve[{{1, -1, 0}, {2, -0.5, 0.5 dh}, {2.2, 0, dh}]], w],
  Arc[1, 1, 2.2, 1.7], Arc[-1, 2, 1.7, 0.6], Arc[1, 3, 0.6, 3]},
  {dh = 1/7;
  Tube[BezierCurve[{{2, -1, 0}, {2.3, -0.5, 0.5 dh}, {2.4, 0, dh}]], w],
  Arc[1, 1, 2.4, 1.3], Arc[-1, 2, 1.3, 0.8], Arc[1, 3, 0.8, 2.8],
  Arc[-1, 4, 2.8, 3.2], Arc[1, 5, 3.2, 0.4], Arc[-1, 6, 0.4, 2]},
  {dh = 0.5; Tube[BezierCurve[{{3, -1, 0}, {2.6, 0, dh}]], w],
  Arc[1, 1, 2.6, 1]},
  Black, H = 1.5;
  Style[Text["(C)", {0.5, 0, 1.1 H}], FontSize -> 26, FontFamily -> "Times"],
  Tube[Line[{{1, 0, 1}, {1, 0, H}]], w],
  Tube[Line[{{2, 0, 1}, {2, 0, H}]], w], Tube[Line[{{3, 0, 1}, {3, 0, H}]], w],
  Blue, Ball[{{1, 0, 1}, 0.05}], Ball[{{2, 0, 1}, 0.05}], Ball[{{3, 0, 1}, 0.05}]
}, ViewPoint -> {1.50411, -33.7946, -0.812523},
ViewVertical -> {0.00589753, -0.204892, 0.978767}, Boxed -> False]

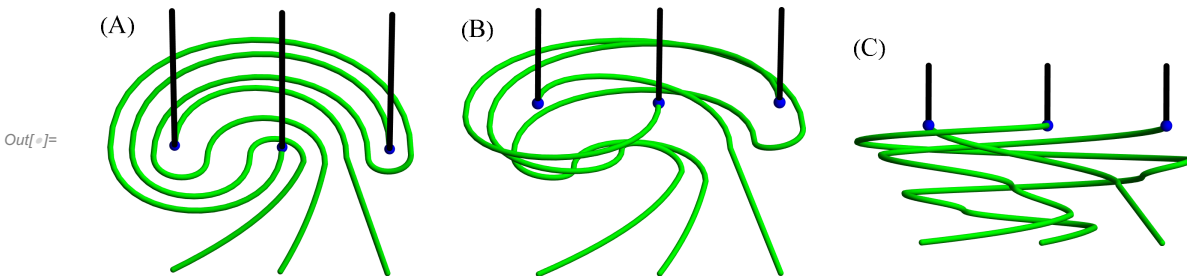
```



```

In[ ]:= g = GraphicsRow[ImageCrop /@ {g1, g2, g3}, Scaled[0.2]]

```



```

In[ ]:= Export["C:\\drorbn\\AcademicPensieve\\Projects\\OU\\ReverseGamma.pdf", g]

```

```

Out[ ]:= C:\\drorbn\\AcademicPensieve\\Projects\\OU\\ReverseGamma.pdf

```

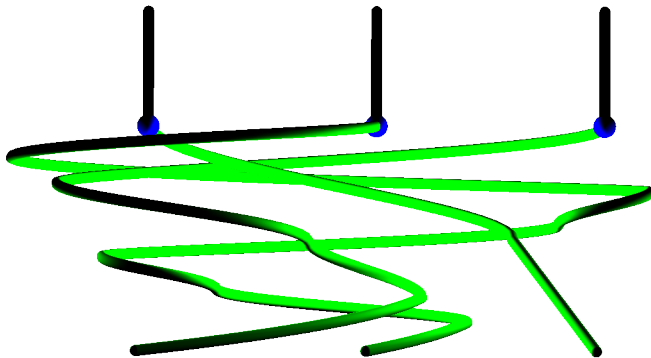
Lighting Experiments

```

In[ ]:= g3 = Graphics3D[ {
  w = Scaled[0.006];
  Green,
  {dh = 0.25; Tube[BezierCurve[{{1, -1, 0}, {2, -0.5, 0.5 dh}, {2.2, 0, dh}]], w],
  Arc[1, 1, 2.2, 1.7], Arc[-1, 2, 1.7, 0.6], Arc[1, 3, 0.6, 3]},
  {dh = 1/7;
  Tube[BezierCurve[{{2, -1, 0}, {2.3, -0.5, 0.5 dh}, {2.4, 0, dh}]], w],
  Arc[1, 1, 2.4, 1.3], Arc[-1, 2, 1.3, 0.8], Arc[1, 3, 0.8, 2.8],
  Arc[-1, 4, 2.8, 3.2], Arc[1, 5, 3.2, 0.4], Arc[-1, 6, 0.4, 2]},
  {dh = 0.5; Tube[BezierCurve[{{3, -1, 0}, {2.6, 0, dh}]], w],
  Arc[1, 1, 2.6, 1]},
  Black, H = 1.5;
  Tube[Line[{{1, 0, 1}, {1, 0, H}]], w],
  Tube[Line[{{2, 0, 1}, {2, 0, H}]], w], Tube[Line[{{3, 0, 1}, {3, 0, H}]], w],
  Blue, Ball[{{1, 0, 1}, 0.05], Ball[{{2, 0, 1}, 0.05], Ball[{{3, 0, 1}, 0.05]
}, ViewPoint -> {1.50411, -33.7946, -0.812523},
ViewVertical -> {0.00589753, -0.204892, 0.978767},
Lighting -> {{ "Point", White, {0.5, 0, 0.5}}, {"Point", White, {1.5, 0, 0.5}},
{"Point", White, {2.5, 0, 0.5}}, {"Point", White, {3.5, 0, 0.5}}},
Boxed ->
False]

```

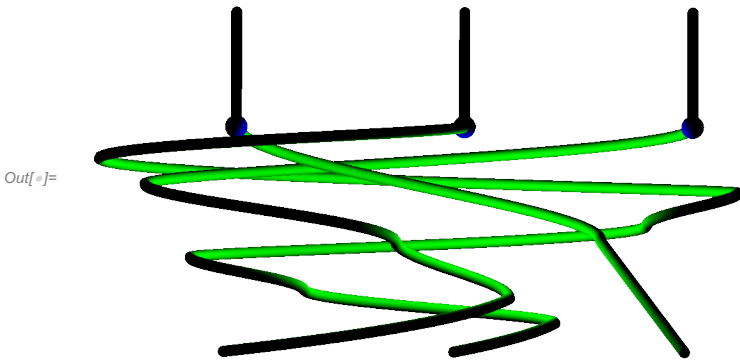
Out[]:=



```

In[ ]:= g3 = Graphics3D[{
  w = Scaled[0.006];
  Green,
  {dh = 0.25; Tube[BezierCurve[{{1, -1, 0}, {2, -0.5, 0.5 dh}, {2.2, 0, dh}]], w],
  Arc[1, 1, 2.2, 1.7], Arc[-1, 2, 1.7, 0.6], Arc[1, 3, 0.6, 3]},
  {dh = 1/7;
  Tube[BezierCurve[{{2, -1, 0}, {2.3, -0.5, 0.5 dh}, {2.4, 0, dh}]], w],
  Arc[1, 1, 2.4, 1.3], Arc[-1, 2, 1.3, 0.8], Arc[1, 3, 0.8, 2.8],
  Arc[-1, 4, 2.8, 3.2], Arc[1, 5, 3.2, 0.4], Arc[-1, 6, 0.4, 2]},
  {dh = 0.5; Tube[BezierCurve[{{3, -1, 0}, {2.6, 0, dh}]], w],
  Arc[1, 1, 2.6, 1]},
  Black, H = 1.5;
  Tube[Line[{{1, 0, 1}, {1, 0, H}]], w],
  Tube[Line[{{2, 0, 1}, {2, 0, H}]], w], Tube[Line[{{3, 0, 1}, {3, 0, H}]], w],
  Blue, Ball[{{1, 0, 1}, 0.05], Ball[{{2, 0, 1}, 0.05], Ball[{{3, 0, 1}, 0.05]
}], ViewPoint -> {1.50411, -33.7946, -0.812523},
ViewVertical -> {0.00589753, -0.204892, 0.978767},
Lighting -> {"Point", White, {2, 0, 0.5}},
Boxed -> False]

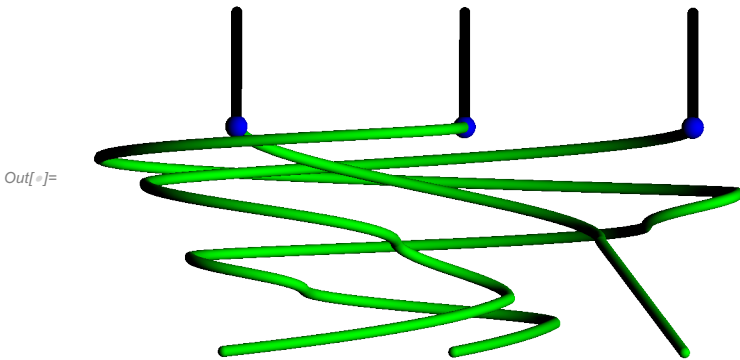
```



```

In[ ]:= g3 = Graphics3D[{
  w = Scaled[0.006];
  Green,
  {dh = 0.25; Tube[BezierCurve[{{1, -1, 0}, {2, -0.5, 0.5 dh}, {2.2, 0, dh}]], w],
  Arc[1, 1, 2.2, 1.7], Arc[-1, 2, 1.7, 0.6], Arc[1, 3, 0.6, 3]},
  {dh = 1/7;
  Tube[BezierCurve[{{2, -1, 0}, {2.3, -0.5, 0.5 dh}, {2.4, 0, dh}]], w],
  Arc[1, 1, 2.4, 1.3], Arc[-1, 2, 1.3, 0.8], Arc[1, 3, 0.8, 2.8],
  Arc[-1, 4, 2.8, 3.2], Arc[1, 5, 3.2, 0.4], Arc[-1, 6, 0.4, 2]},
  {dh = 0.5; Tube[BezierCurve[{{3, -1, 0}, {2.6, 0, dh}]], w],
  Arc[1, 1, 2.6, 1]},
  Black, H = 1.5;
  Tube[Line[{{1, 0, 1}, {1, 0, H}]], w],
  Tube[Line[{{2, 0, 1}, {2, 0, H}]], w], Tube[Line[{{3, 0, 1}, {3, 0, H}]], w],
  Blue, Ball[{{1, 0, 1}, 0.05], Ball[{{2, 0, 1}, 0.05], Ball[{{3, 0, 1}, 0.05]
}], ViewPoint -> {1.50411, -33.7946, -0.812523},
ViewVertical -> {0.00589753, -0.204892, 0.978767},
Lighting -> {"Point", White, {10, -10, 1}},
Boxed -> False]

```



```

In[ ]:= g3 = Graphics3D[{
  w = Scaled[0.006];
  Green,
  {dh = 0.25; Tube[BezierCurve[{{1, -1, 0}, {2, -0.5, 0.5 dh}, {2.2, 0, dh}]], w],
  Arc[1, 1, 2.2, 1.7], Arc[-1, 2, 1.7, 0.6], Arc[1, 3, 0.6, 3]},
  {dh = 1/7;
  Tube[BezierCurve[{{2, -1, 0}, {2.3, -0.5, 0.5 dh}, {2.4, 0, dh}]], w],
  Arc[1, 1, 2.4, 1.3], Arc[-1, 2, 1.3, 0.8], Arc[1, 3, 0.8, 2.8],
  Arc[-1, 4, 2.8, 3.2], Arc[1, 5, 3.2, 0.4], Arc[-1, 6, 0.4, 2]},
  {dh = 0.5; Tube[BezierCurve[{{3, -1, 0}, {2.6, 0, dh}]], w],
  Arc[1, 1, 2.6, 1]},
  Black, H = 1.5;
  Tube[Line[{{1, 0, 1}, {1, 0, H}]], w],
  Tube[Line[{{2, 0, 1}, {2, 0, H}]], w], Tube[Line[{{3, 0, 1}, {3, 0, H}]], w],
  Blue, Ball[{{1, 0, 1}, 0.05], Ball[{{2, 0, 1}, 0.05], Ball[{{3, 0, 1}, 0.05]
}], ViewPoint -> {1.50411, -33.7946, -0.812523},
ViewVertical -> {0.00589753, -0.204892, 0.978767},
Lighting -> {atten = {3, 0, 0};
  {"Point", White, {1, -2, 1}, atten},
  {"Point", White, {2, -2, 1}, atten}, {"Point", White, {3, -2, 1}, atten}},
Boxed ->
False]

```

Out[]:=

