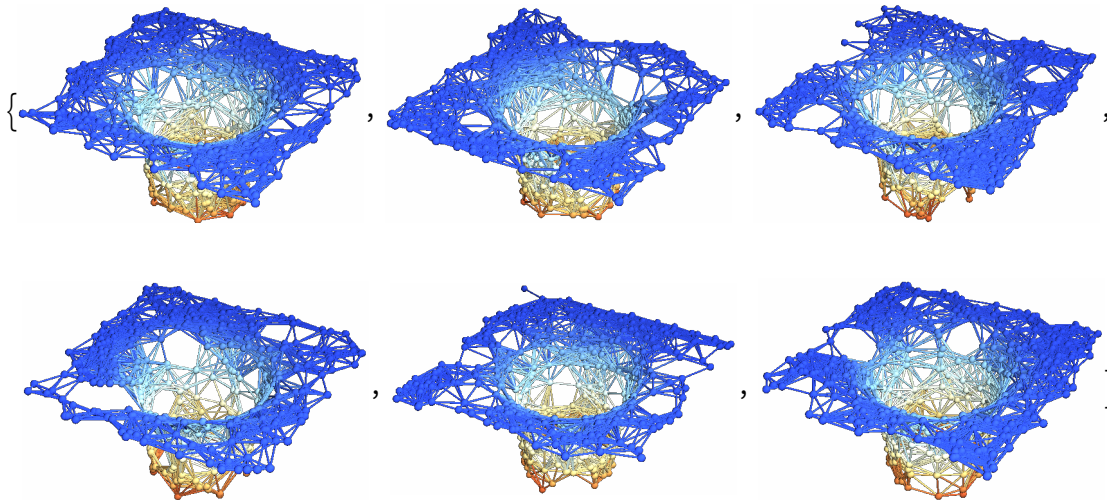```
In[11]:= Import["https://github.com/JonathanGorard/Gravitas/raw/main/MetricTensor.wl"]
         Import["https://github.com/JonathanGorard/Gravitas/raw/main/ExtrinsicCurvatureTensor.wl"]
         Import["https://github.com/JonathanGorard/Gravitas/raw/main/ADMDecomposition.wl"]
         Import[
           "https://github.com/JonathanGorard/Gravitas/raw/main/DiscreteHypersurfaceDecomposition.
             wl"]

In[15]:= decomposition = DiscreteHypersurfaceDecomposition[
           MetricTensor[{"Schwarzschild", 1}, {t, r, θ, ϕ}], {t, 0, 1}, {r, 0, 4}, {θ, -Pi, Pi}, 400, 1.2]

Out[15]=
```

DiscreteHypersurfaceDecomposition[ ⊞ | Time Coordinate: t  Time Interval: {0, 1}
                                        Vertices: 400       Discretization Scale: 1.2 ]

```
In[16]:= decomposition[{"CoordinatizedPolarGraphEvolutionColored", 5}]
```



```
decomposition2 = DiscreteHypersurfaceDecomposition[
  MetricTensor[{"Kerr", 1, 1/3}, {t, r, θ, ϕ}], {t, 0, 1}, {r, 0, 4}, {θ, -Pi, Pi}, 400, 1.2]

decomposition2[{"CoordinatizedPolarGraphEvolutionColored", 5}]
```