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In[14]:= Clear["Global`*"]
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In[16]:= SetDirectory[];
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In[17]:= SetDirectory["papers/math/dim2gr"];
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```
In[18]:= << GREAT.m;
```

GREAT functions are: IMetric, Christoffel,
Riemann, Ricci, SCurvature, EinsteinTensor, SqRicci, SqRiemann.
Enter 'helpGREAT' for this list of functions

```
In[20]:= x = {u, v};
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```
In[21]:= z[u, v] := Sqrt[u^2 - v^2 - L^2]
```

```
In[22]:= (met = {{-1 + (D[z[u, v], u])^2, D[z[u, v], u] * D[z[u, v], v]},  
               {D[z[u, v], u] * D[z[u, v], v], 1 + (D[z[u, v], v])^2}}) // MatrixForm
```

Out[22]//MatrixForm=

$$\begin{pmatrix} -1 + \frac{u^2}{-L^2 + u^2 - v^2} & -\frac{u v}{-L^2 + u^2 - v^2} \\ -\frac{u v}{-L^2 + u^2 - v^2} & 1 + \frac{v^2}{-L^2 + u^2 - v^2} \end{pmatrix}$$

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In[23]:= SCurvature[met, x]
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Out[23]= $-\frac{2}{L^2}$