

```
In[1]:= SetDirectory["~/Factorisation"];  
        << kappaLib.m  
        << helper.m
```

KappaLib v1.1

Loading helper.m..

■ Fresnel surface can decompose into second order surfaces without having a unique decomposition

```
In[4]:= vars = {x0, x1, x2, x3};  
        kappa = emMatrixToKappa[DiagonalMatrix[{-1, 1, 0, -1, 1, 0}]];
```

```
In[6]:= fr = emKappaToFresnel[kappa, vars]
```

Out[6]= 4 x0 x1 x2 x3

```
In[7]:= printNotebook["NonUniqueDecomposition.pdf"]
```