

```
In[6]:= G = {
  {0, 0, 0},
  {0, 0, -1},
  {0, 1, 0}},
  {{0, 0, 1},
  {0, 0, 0},
  {-1, 0, 0}},
  {{0, -1, 0},
  {1, 0, 0},
  {0, 0, 0}}
};
r[phi_] := Exp[phi.G]
```

```
In[10]:= r[{phi1, phi2, phi3}] // MatrixForm
```

Out[10]/MatrixForm=

$$\begin{pmatrix} 1 & e^{-\phi_3} & e^{\phi_2} \\ e^{\phi_3} & 1 & e^{-\phi_1} \\ e^{-\phi_2} & e^{\phi_1} & 1 \end{pmatrix}$$