$$g = \begin{bmatrix} 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 1 \\ 1 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 \end{bmatrix}$$

$x_1 \lfloor x_1 == 1$

$x_1 \lfloor x_2 == 0$

$x_2 \lfloor x_1 == 0$

$x_2 \lfloor x_2 == 1$

$-\infty < v < \infty$

$$e^{-v(x_1 \wedge x_2)/2} == \cos\left(\frac{|v|}{2}\right) - \frac{v \sin\left(\frac{|v|}{2}\right)}{2\,|v|} \boldsymbol{e}_1 \wedge \boldsymbol{e}_2 - \frac{v \sin\left(\frac{|v|}{2}\right)}{2\,|v|} \boldsymbol{e}_1 \wedge \boldsymbol{e}_4 + \frac{v \sin\left(\frac{|v|}{2}\right)}{2\,|v|} \boldsymbol{e}_2 \wedge \boldsymbol{e}_3 - \frac{v \sin\left(\frac{|v|}{2}\right)}{2\,|v|} \boldsymbol{e}_3 \wedge \boldsymbol{e}_4$$

$0 \leq v \leq \infty$

$$e^{-v(x_1 \wedge x_2)/2)} == \cos\left(\frac{v}{2}\right) - \frac{\sin\left(\frac{v}{2}\right)}{2} \boldsymbol{e}_1 \wedge \boldsymbol{e}_2 - \frac{\sin\left(\frac{v}{2}\right)}{2} \boldsymbol{e}_1 \wedge \boldsymbol{e}_4 + \frac{\sin\left(\frac{v}{2}\right)}{2} \boldsymbol{e}_2 \wedge \boldsymbol{e}_3 - \frac{\sin\left(\frac{v}{2}\right)}{2} \boldsymbol{e}_3 \wedge \boldsymbol{e}_4$$