```
l'Essayeur
          pos-
te-
ri-
ori
Philosophiae
         (1)_{\substack{\beta \\ ??}}
        ds^{2} = c^{2}dt^{2} - d\vec{r}^{2} = \sum_{\mu=0}^{3} \sum_{\nu=0}^{3} g_{\mu\nu} dx^{\mu} dx^{\nu}
 {c \choose g_{\mu\nu}} = (1)0000 - 10000 - 10000 - 1
  (3)
SO(1,3)
         \begin{array}{l} \operatorname{d} s'^{2} \\ g_{\mu\nu} \operatorname{d} x^{\mu} \operatorname{d} x^{\nu} = \\ \underline{g}_{\alpha\beta} \operatorname{d} x'^{\alpha} \operatorname{d} x'^{\beta} \end{array}
          \begin{array}{c} - \\ g_{\alpha\beta} \Lambda^{\alpha}_{\ \mu} \Lambda^{\beta}_{\ \nu} \mathrm{d} x^{\mu} \mathrm{d} x^{\nu} \\ \Lambda \end{array}
 g = \Lambda^t g \Lambda
         \left(\Lambda_0^0\right)^2 = 1 +
```