

In[219]:= **Mch** χ // **MatrixForm**

Out[219]//MatrixForm=

$$\begin{pmatrix} \mathbf{M2} & g2 \, v2 & 0 & 0 & 0 \\ g2 \, v1 & \kappa 0 \, \sigma S & 0 & 0 & -Y_{\tau} \, \sigma v[3] \\ g2 \, \sigma v[1] & -\kappa 1[1] \, \sigma n[3] & 0 & 0 & 0 \\ g2 \, \sigma v[2] & -\kappa 1[2] \, \sigma n[3] & 0 & 0 & 0 \\ g2 \, \sigma v[3] & -\kappa 1[3] \, \sigma n[3] & 0 & 0 & v1 \, Y_{\tau} \end{pmatrix}$$

In[220]:= **Mnex** χ // **MatrixForm**

Out[220]//MatrixForm=

$$\begin{pmatrix} \mathbf{M1} & 0 & -\frac{g1 \, v1}{\sqrt{2}} & \frac{g1 \, v2}{\sqrt{2}} & 0 & -\frac{g1 \, \sigma v[1]}{\sqrt{2}} & -\frac{g1 \, \sigma v[2]}{\sqrt{2}} & -\frac{g1 \, \sigma v[3]}{\sqrt{2}} & 0 \\ 0 & \mathbf{M2} & \frac{g2 \, v1}{\sqrt{2}} & -\frac{g2 \, v2}{\sqrt{2}} & 0 & \frac{g2 \, \sigma v[1]}{\sqrt{2}} & \frac{g2 \, \sigma v[2]}{\sqrt{2}} & \frac{g2 \, \sigma v[3]}{\sqrt{2}} & 0 \\ -\frac{g1 \, v1}{\sqrt{2}} & \frac{g2 \, v1}{\sqrt{2}} & 0 & -\kappa 0 \, \sigma S & -v2 \, \kappa 0 & 0 & 0 & 0 & 0 \\ \frac{g1 \, v2}{\sqrt{2}} & -\frac{g2 \, v2}{\sqrt{2}} & -\kappa 0 \, \sigma S & 0 & -v1 \, \kappa 0 & \kappa 1[1] \, \sigma n[3] & \kappa 1[2] \, \sigma n[3] & \kappa 1[3] \, \sigma n[3] & \kappa 1[1] \, \sigma v[1] + \kappa 1[2] \, \sigma v[2] + \kappa 1[3] \, \sigma v[3] \\ 0 & 0 & -v2 \, \kappa 0 & -v1 \, \kappa 0 & \kappa 3 \, \sigma S & 0 & 0 & 0 & \kappa 2 \, \sigma n[3] \\ -\frac{g1 \, \sigma v[1]}{\sqrt{2}} & \frac{g2 \, \sigma v[1]}{\sqrt{2}} & 0 & \kappa 1[1] \, \sigma n[3] & 0 & 0 & 0 & 0 & v2 \, \kappa 1[1] \\ -\frac{g1 \, \sigma v[2]}{\sqrt{2}} & \frac{g2 \, \sigma v[2]}{\sqrt{2}} & 0 & \kappa 1[2] \, \sigma n[3] & 0 & 0 & 0 & 0 & v2 \, \kappa 1[2] \\ -\frac{g1 \, \sigma v[3]}{\sqrt{2}} & \frac{g2 \, \sigma v[3]}{\sqrt{2}} & 0 & \kappa 1[3] \, \sigma n[3] & 0 & 0 & 0 & 0 & v2 \, \kappa 1[3] \\ 0 & 0 & 0 & \kappa 1[1] \, \sigma v[1] + \kappa 1[2] \, \sigma v[2] + \kappa 1[3] \, \sigma v[3] & \kappa 2 \, \sigma n[3] & v2 \, \kappa 1[1] & v2 \, \kappa 1[2] & v2 \, \kappa 1[3] & \kappa 2 \, \sigma S \end{pmatrix}$$