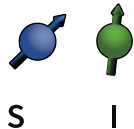


Two Coupled Spins



1 `k0 = sos.state(s, 'S[0.5],I[-0.5]')`

$$\begin{pmatrix} \square \\ \square \\ \blacksquare \\ \blacksquare \end{pmatrix} \cdot \begin{pmatrix} \blacksquare \\ \square \\ \blacksquare \\ \square \end{pmatrix} = \begin{pmatrix} \square \\ \square \\ \blacksquare \\ \square \end{pmatrix}$$

2 `r0 = sos.ket2dm(k0)`

$$\begin{pmatrix} \square & \square & \square & \square \\ \square & \square & \square & \square \\ \square & \square & \blacksquare & \square \\ \square & \square & \square & \square \end{pmatrix}$$

3 `rv0 = sos.dm2dmvec(r0)`

$$\begin{pmatrix} \square \\ \vdots \\ \blacksquare \\ \vdots \\ \square \end{pmatrix}$$