$$
\begin{aligned}
\Psi_{181} \;=\;& C_1\left(|2uud\rangle + |d2uu\rangle + |ud2u\rangle + |uud2\rangle\right) \\
&+C_2\left(|2udu\rangle + |du2u\rangle + |u2ud\rangle + |udu2\rangle\right) \\
&+C_3\left(|2duu\rangle + |duu2\rangle + |u2du\rangle + |uu2d\rangle\right) \\
&+C_4\left(|022u\rangle + |22u0\rangle + |2u02\rangle + |u022\rangle\right) \\
&+C_5\left(|02u2\rangle + |202u\rangle + |2u20\rangle + |u202\rangle\right) \\
&+C_6\left(|0u22\rangle + |20u2\rangle + |220u\rangle + |u220\rangle\right)
\end{aligned} \tag{1}
$$

$$
C_1 = \frac{\frac{i}{12}\left(2\,t - U + \sqrt{16\,t^2 - 4\,t\,U + U^2}\right)}{t} \tag{2}
$$

$$
C_2 = \frac{\left(3 + i\,\sqrt{3}\right)\left(2\,t - U + \sqrt{16\,t^2 - 4\,t\,U + U^2}\right)}{12\left(3\,i + \sqrt{3}\right)\,t} \tag{3}
$$

$$
C_3 = \frac{2\,t - U + \sqrt{16\,t^2 - 4\,t\,U + U^2}}{6\,i\,t - 6\,\sqrt{3}\,t} \tag{4}
$$

$$
C_4 = \frac{3\,i - \sqrt{3}}{12} \tag{5}
$$

$$
C_5 = \frac{3\,i + \sqrt{3}}{12} \tag{6}
$$

$$
C_6 = \frac{1}{2\,\sqrt{3}} \tag{7}
$$