$$
\begin{aligned}
\Psi_{183} &= C_1\left(|2uud\rangle + |d2uu\rangle + |ud2u\rangle + |uud2\rangle\right) \\
&\quad + C_2\left(|2udu\rangle + |du2u\rangle + |u2ud\rangle + |udu2\rangle\right) \\
&\quad + C_3\left(|2duu\rangle + |duu2\rangle + |u2du\rangle + |uu2d\rangle\right) \\
&\quad + C_4\left(|022u\rangle + |22u0\rangle + |2u02\rangle + |u022\rangle\right) \\
&\quad + C_5\left(|02u2\rangle + |202u\rangle + |2u20\rangle + |u202\rangle\right) \\
&\quad + C_6\left(|0u22\rangle + |20u2\rangle + |220u\rangle + |u220\rangle\right)
\end{aligned}
$$

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

$$
C_2 = -\left(\frac{\left(3\,i + \sqrt{3}\right)\,\left(-2\,t + U - \sqrt{16\,t^2 - 4\,t\,U + U^2}\right)}{36\,t + 12\,i\,\sqrt{3}\,t}\right)
$$

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

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

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

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