$$
\begin{cases}
\mathrm{IS}_0 = \dfrac{13}{12}\left(u_{i+2} - 2u_{i+1} + u_i\right)^2 + \dfrac{1}{4}\left(u_{i+2} - 4u_{i+1} + 3u_i\right)^2 \\
\mathrm{IS}_1 = \dfrac{13}{12}\left(u_{i+1} - 2u_i + u_{i-1}\right)^2 + \dfrac{1}{4}\left(u_{i+1} - u_{i-1}\right)^2 \\
\mathrm{IS}_2 = \dfrac{13}{12}\left(u_i - 2u_{i-1} + u_{i-2}\right)^2 + \dfrac{1}{4}\left(3u_i - 4u_{i-1} + u_{i-2}\right)^2
\end{cases}
$$