Relay:

$\{\mathcal{T}_k\}_{k=1}^K \to$ relay | relay $\to$ $\{\mathcal{R}_k\}_{k=1}^K$ | $\{\mathcal{T}_k\}_{k=1}^K \to$ relay | relay $\to$ $\{\mathcal{R}_k\}_{k=1}^K$ | $\frac{T-\tau}{2}$ | $\frac{T-\tau}{2}$

IRS: $\{\mathcal{T}_k\}_{k=1}^K \to$ IRS $\to$ $\{\mathcal{R}_k\}_{k=1}^K$ | $\{\mathcal{T}_k\}_{k=1}^K \to$ IRS $\to$ $\{\mathcal{R}_k\}_{k=1}^K$

τ (energy waveform) $T - \tau$ (information waveform)