State Fidelity to Ground Truth for a 1-Qubit State @ $T_1 = 100\mu s$, 1000 Shots

Fidelity $[\text{Tr}(\sqrt{\sqrt{\rho}\sigma\sqrt{\rho}})]^2$

T_1/T_2 $(T_2 \leq 2T_1)$

Symbols for τ
- ● $\tau = 1\mu s$
- ■ $\tau = 10\mu s$
- ▲ $\tau = 20\mu s$
- ▼ $\tau = 50\mu s$
- ◆ $\tau = 100\mu s$

STABSim (w/o Negativity Sampling)
Pauli Twirling