Standard deviation of the X gate matrix elements. 0.08 0.07 -0.06Standard deviation [1] 0.05 0.04 - $\operatorname{Re}(|0\rangle\langle 0|)$  $\operatorname{Re}(|0\rangle\langle 1|)$ 0.03 - $\operatorname{Re}(|1\rangle\langle 0|)$  $\operatorname{Re}(|1\rangle\langle 1|)$  $\operatorname{Im}(|0\rangle\langle 0|)$ 0.02 $\operatorname{Im}(|0\rangle\langle 1|)$  $\operatorname{Im}(|1\rangle\langle 0|)$  $\operatorname{Im}(\ket{1}\bra{1})$ 0.01 0.2 0.8 0.6 1.0 0.0 0.4 Gaussian location parameter [1]