Standard deviation of the X gate matrix elements. 0.025 -0.020 Standard deviation [1] 0.015 $\operatorname{Re}(|0\rangle\langle 0|)$ 0.010 $\operatorname{Re}(|0\rangle\langle 1|)$  $\operatorname{Re}(|1\rangle\langle 0|)$  $\operatorname{Re}(|1\rangle\langle 1|)$  $\operatorname{Im}(|0\rangle\langle 0|)$  $\operatorname{Im}(|0\rangle\langle 1|)$ 0.005 $\operatorname{Im}(|1\rangle\langle 0|)$  $\operatorname{Im}(\ket{1}\bra{1})$ 0.4 0.6 0.8 0.0 0.2 1.0 Gaussian location parameter [1]