Deviation of the X gate matrix elements. $\operatorname{Re}(\left|0\right\rangle\left\langle 0\right|)$ $\operatorname{Re}(|0\rangle\langle 1|)$ $\operatorname{Re}(|1\rangle\langle 0|)$ 0.0006 - $\operatorname{Re}(|1\rangle\langle 1|)$ $\operatorname{Im}(|0\rangle\langle 0|)$ $\operatorname{Im}(|0\rangle\langle 1|)$ Deviation from noiseless case [1] $\operatorname{Im}(|1\rangle\langle 0|)$ 0.0004 - $\operatorname{Im}(\left|1\right\rangle\left\langle 1\right|)$ 0.0002 -0.0000 -0.0002-0.00040.2 0.0 0.4 0.6 0.8 1.0 Gaussian location parameter [1]