	Experiment setup						
	Standard LIF			Two comp. LIF $g_C = 50\,\text{nS}$		Two comp. LIF $g_C = 100\,\text{nS}$	
Target	no relaxation	Ⓐ standard	Ⓑ two-layer	Ⓒ standard	noise model	standard	noise model
$x + y$	5.1 ± 0.6%	5.5 ± 1.1%	11.0 ± 1.3%	**3.2 ± 1.1%**	9.1 ± 1.2%	5.1 ± 1.2%	11.5 ± 1.3%
$x \times y$	26.2 ± 0.4%	21.5 ± 6.6%	15.4 ± 4.0%	13.9 ± 2.9%	**11.9 ± 1.8%**	18.2 ± 4.0%	14.3 ± 2.1%
$\sqrt{x \times y}$	14.1 ± 0.4%	19.7 ± 6.1%	16.3 ± 3.0%	9.7 ± 2.6%	**7.1 ± 1.0%**	13.3 ± 4.2%	8.9 ± 1.7%
$(x \times y)^2$	44.5 ± 0.6%	33.0 ± 6.6%	**18.7 ± 6.7%**	27.7 ± 4.1%	27.4 ± 4.1%	34.3 ± 5.3%	30.3 ± 4.3%
$x/(1 + y)$	6.0 ± 0.4%	5.2 ± 0.7%	9.5 ± 0.8%	**3.4 ± 1.0%**	10.0 ± 1.6%	5.3 ± 1.3%	14.0 ± 1.9%
$\|(x, y)\|$	8.0 ± 0.4%	5.7 ± 1.1%	10.5 ± 1.0%	**3.1 ± 1.3%**	8.9 ± 1.2%	4.3 ± 1.8%	12.3 ± 1.8%
$\text{atan}(x, y)$	10.3 ± 0.3%	8.6 ± 1.0%	13.4 ± 1.1%	**5.8 ± 1.3%**	8.4 ± 1.0%	7.0 ± 1.2%	12.7 ± 1.6%
$\max(x, y)$	14.9 ± 0.3%	10.0 ± 0.9%	11.3 ± 1.4%	**5.5 ± 0.9%**	7.7 ± 0.9%	7.3 ± 0.9%	9.7 ± 1.0%