

Observable	Wrong-sign fraction $k$ (%)	Dilution factor $\mathcal{D}$
$O_2$	$21.27 \pm 0.10 \pm 0.97$	$0.575 \pm 0.0002 \pm 0.019$
$O_3$	$30.86 \pm 0.10 \pm 0.90$	$0.383 \pm 0.0002 \pm 0.018$
$O_4$	$31.65 \pm 0.10 \pm 0.95$	$0.367 \pm 0.0002 \pm 0.019$
$O_7$	$13.52 \pm 0.11 \pm 0.50$	$0.730 \pm 0.0002 \pm 0.010$