

# $T(\phi, a)$ in SMALLPRESENT-8 with all zero key upto 3 rounds

For all  $\phi_1, \phi_2$  if  $|\phi_1| = |\phi_2|$  then  $\phi_1 = \phi_2$

For all  $\phi_1, \phi_2$  if  $|\phi_1| < |\phi_2|$  then  $\phi_1 \subset \phi_2$

The gray portion is 2 standard deviation around mean of  $T(\phi, a)$

