

# ABBREVIATIONS

<b>TT</b>	Truth Table
<b>PTT</b>	Polarity Truth Table
<b>WHT</b>	Walsh Hadamard Transform
<b>XOR</b>	Exclusive or
<b>wt</b>	Hamming Weight
<b>Tr</b>	Trace
<b>ANF</b>	Algebraic Normal Form
<b>SANF</b>	Simplified Algebraic Normal form
<b>nl</b>	NonLinearity
<b>CI</b>	Correlation Immunity
<b>AI</b>	Algebraic Immunity
<b>SAC</b>	Strict Avalanche Criterion
<b>GAC</b>	Global Avalanche Characteristic
<b>RotS</b>	Rotation Symmetric
<b>RSTT</b>	Rotation Symmetric Truth Table
<b>MRS</b>	Monomial Rotation Symmetric

# LIST OF SYMBOLS

$\mathbb{F}_q$	Finite field with $q$ elements
$\mathbb{F}_2^n$	$n$ -dimensional vector space over the binary field $\mathbb{F}_2$
$\mathcal{B}_n$	Set of $n$ variable Boolean functions
$\mathcal{A}_n$	Set of $n$ variable Affine Boolean functions
$\oplus$	Exclusive or
D	Formal derivative
$Z_G$	Cycle index polynomial of a group $G$
$W_f$	Walsh spectrum of $f$
$\Delta_f$	Autocorrelation spectrum of $f$
$\rho_n^k$	$k$ bit circular shift of an $n$ bit string