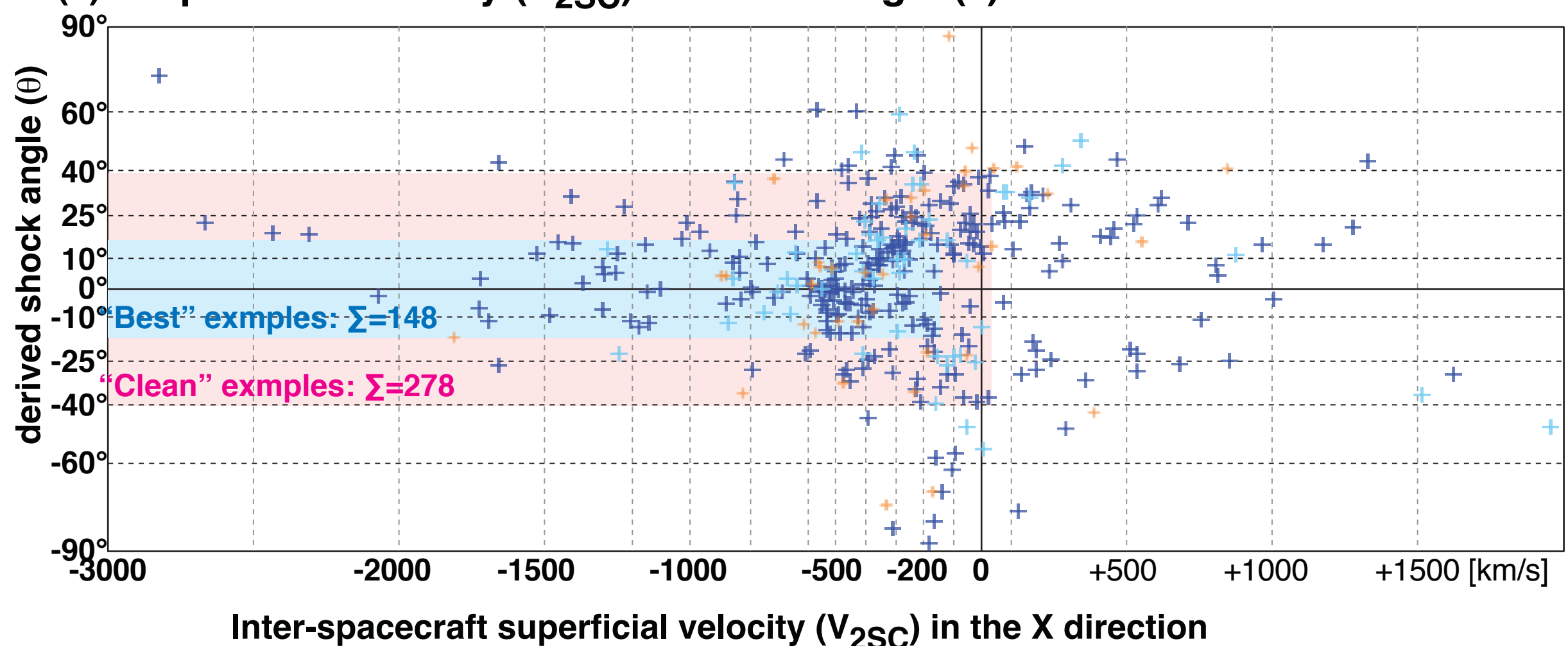
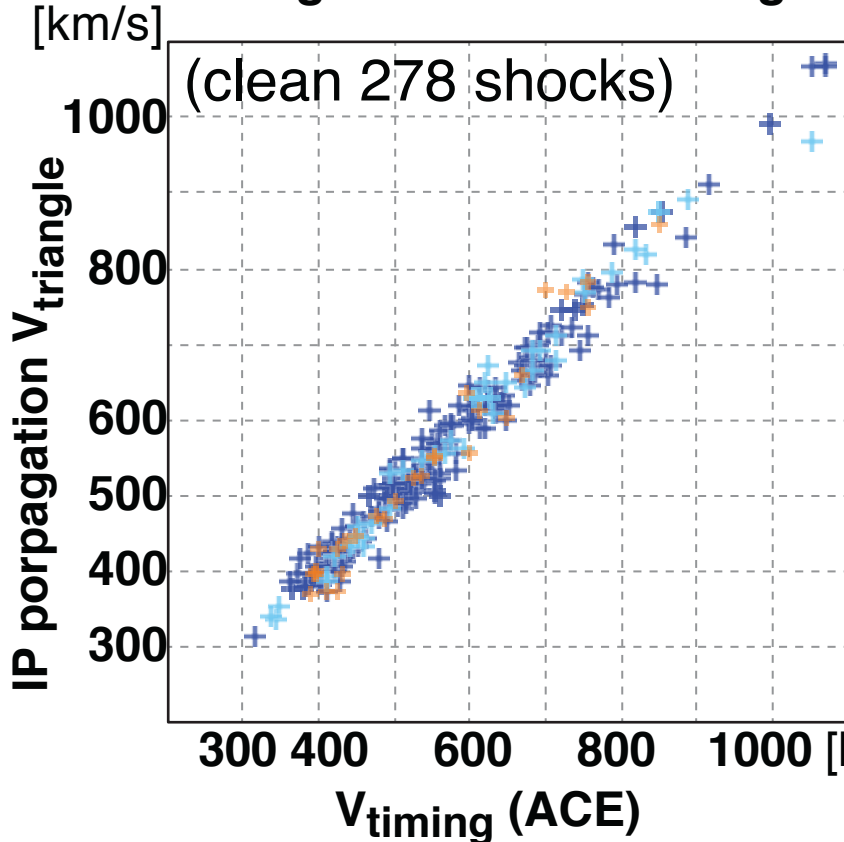


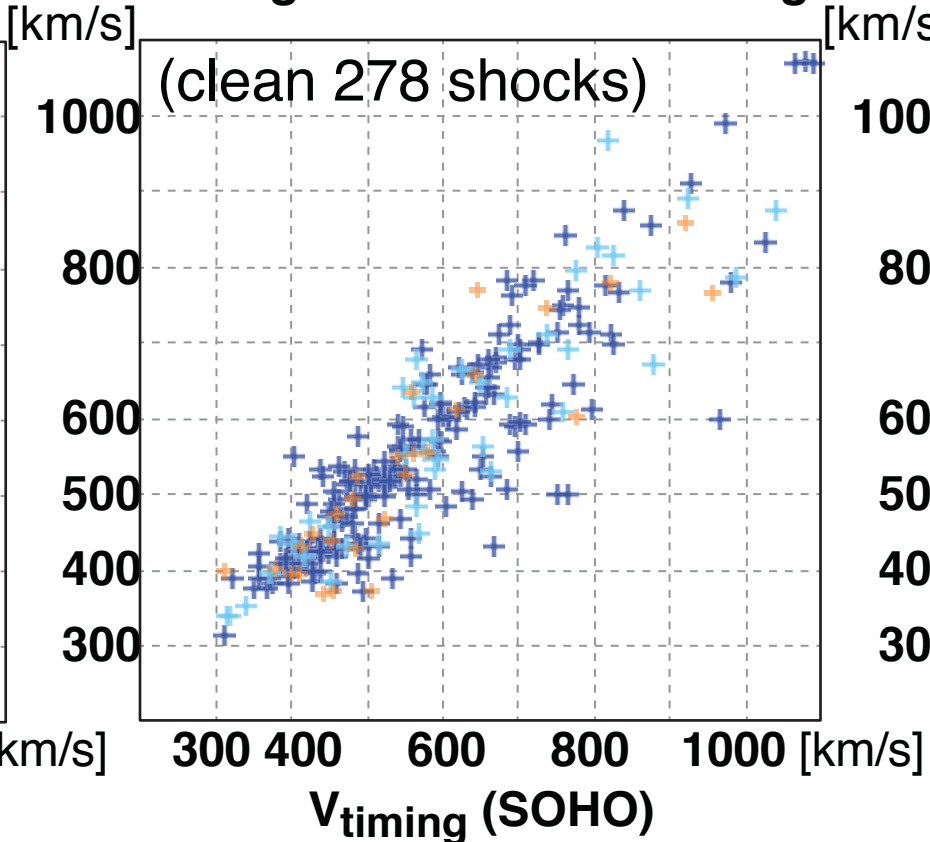
Fig 3 (a) Superficial velocity (V_{2SC}) vs shock angle (θ)



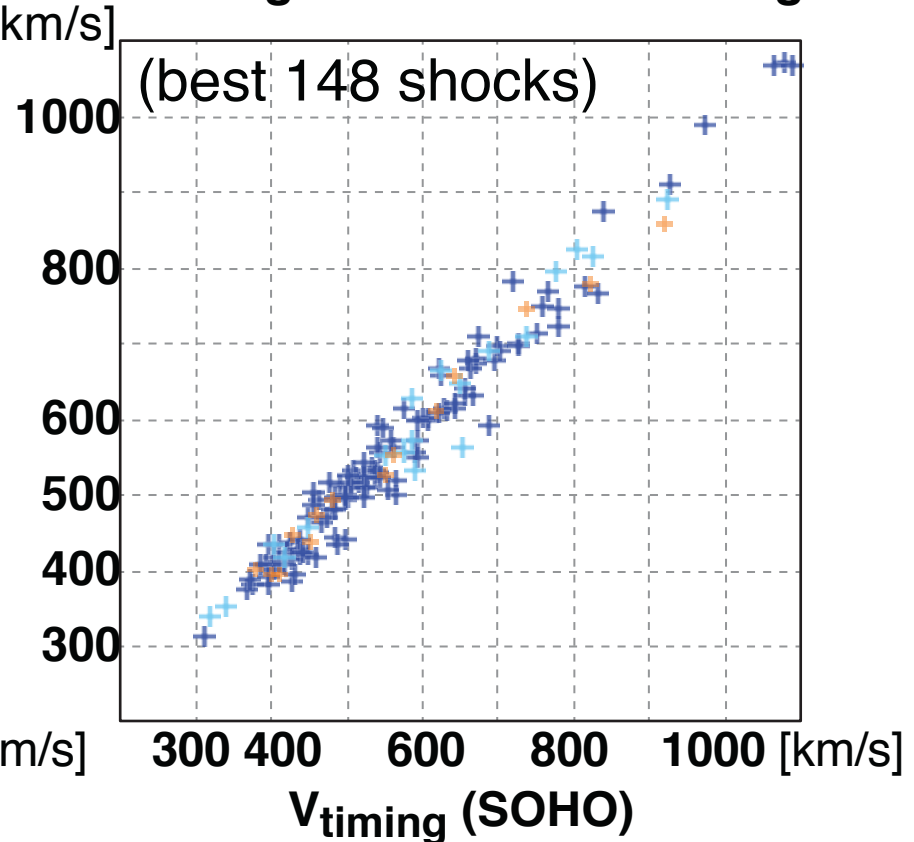
(b) V_{triangle} vs ACE V_{timing}



(c) V_{triangle} vs SOHO V_{timing}



(d) V_{triangle} vs SOHO V_{timing}

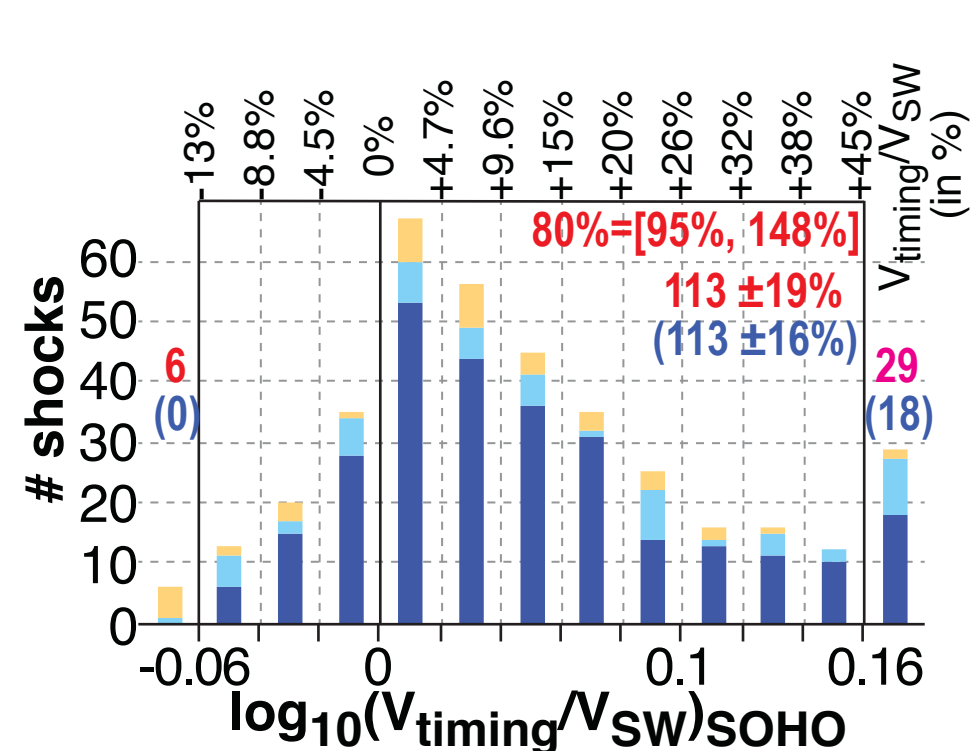


+ clear SC (by both methods)
 + clear SC (by only SYM-H)
 + weak SC

Fig 5

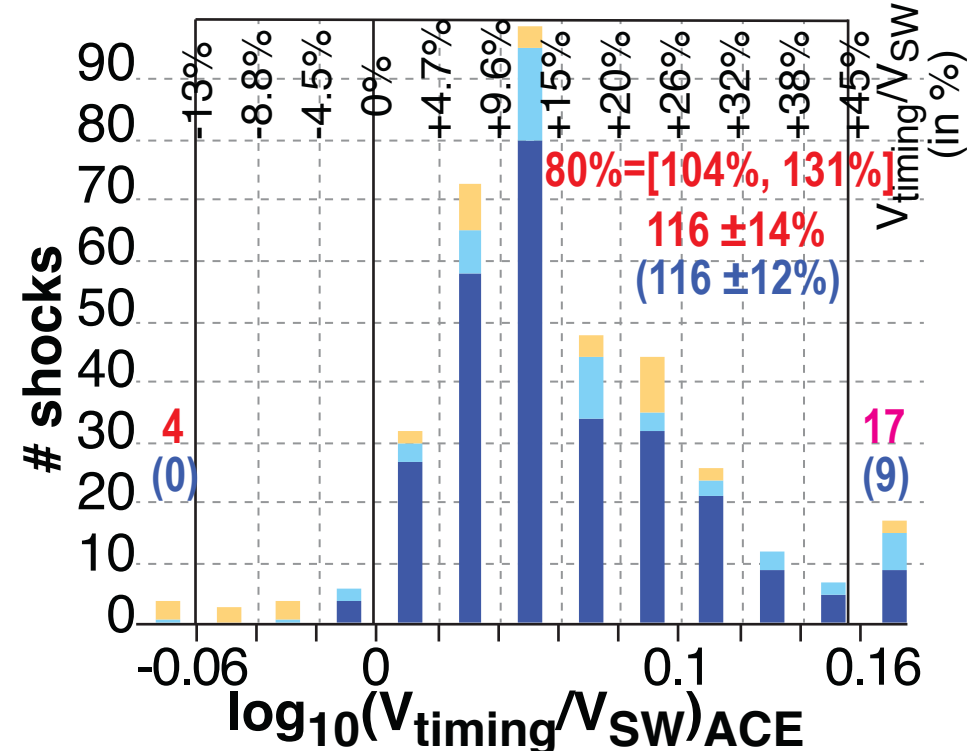
$V_{\text{timing}}/V_{\text{SW}}$ for SOHO

(a) Consistent (SOHO $\leftrightarrow$ ACE): $\Sigma=375$



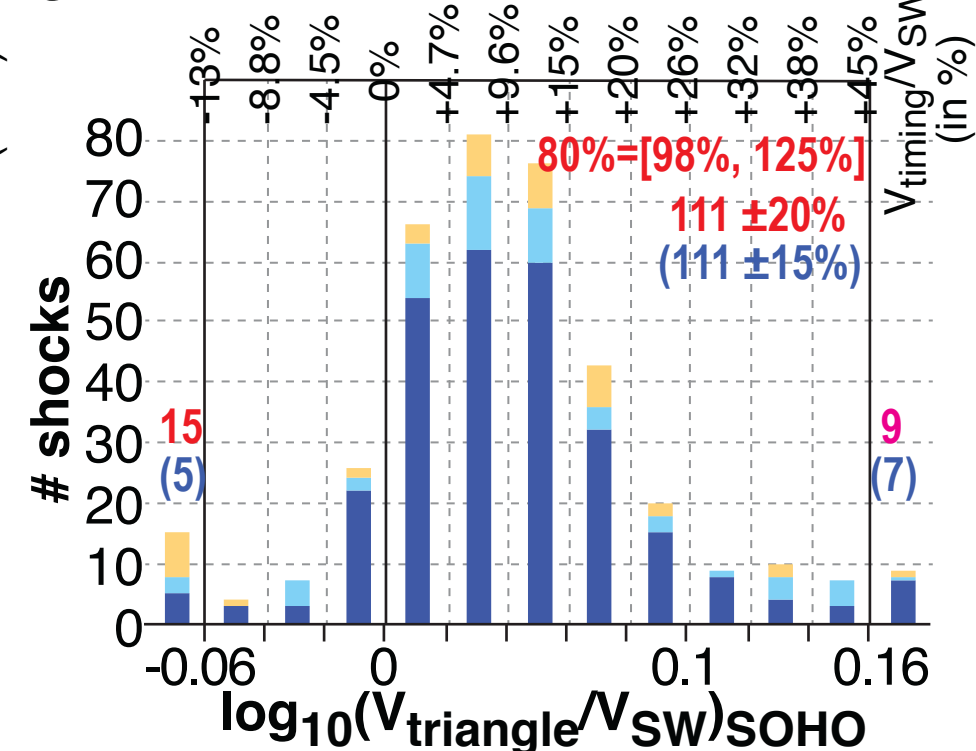
$V_{\text{timing}}/V_{\text{SW}}$ for ACE

(d) Consistent (SOHO $\leftrightarrow$ ACE): $\Sigma=375$

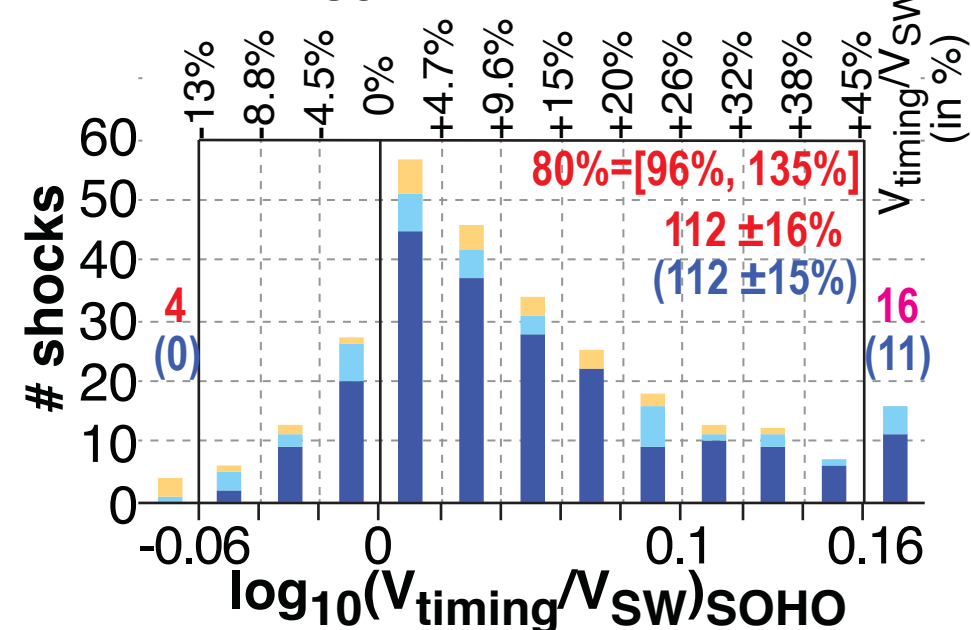


$V_{\text{triangle}}/V_{\text{SW}}(\text{SOHO})$

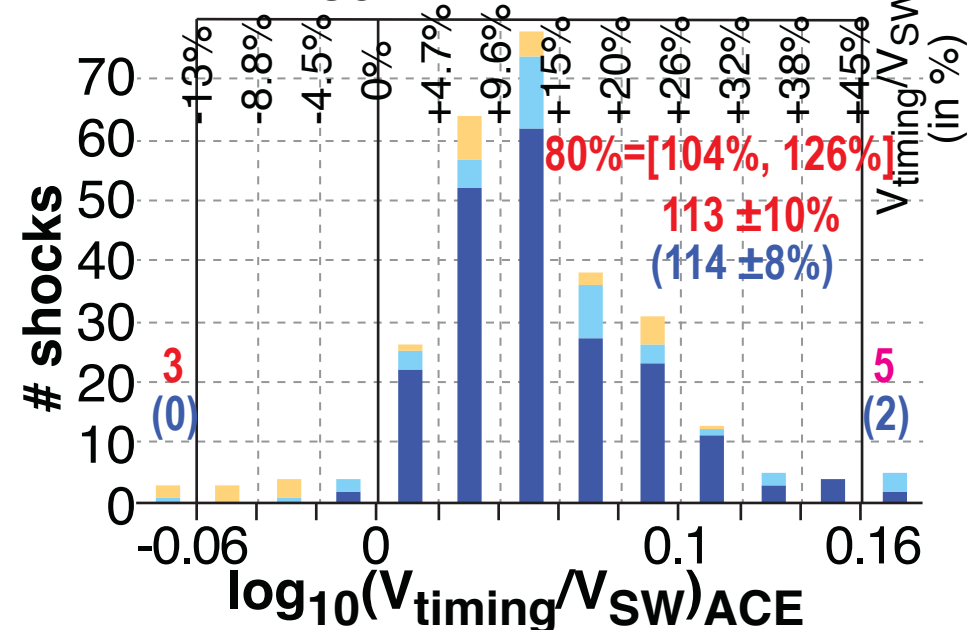
(g) Consistent (SOHO $\leftrightarrow$ ACE): $\Sigma=375$



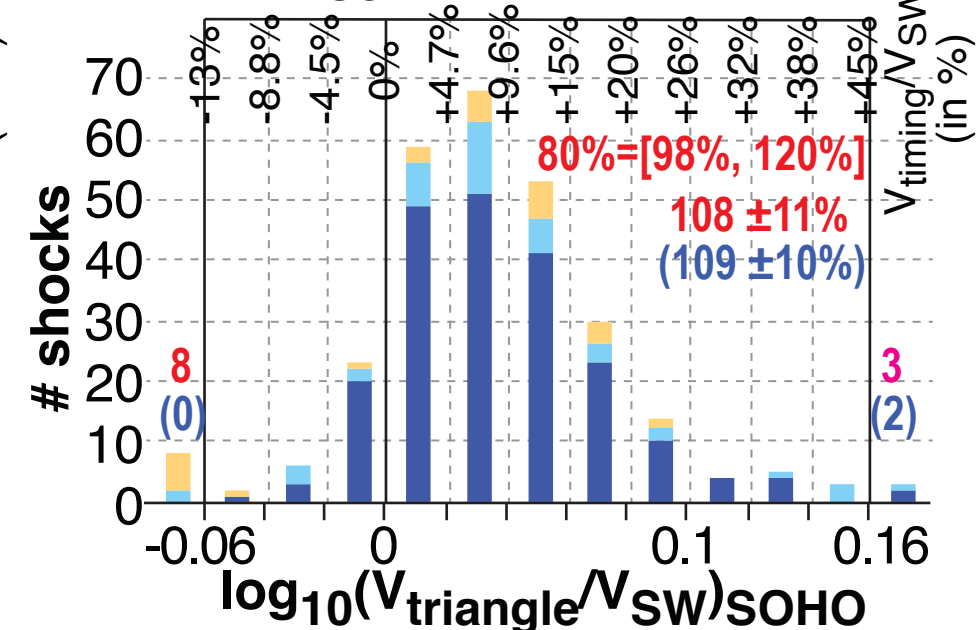
(b) Clean ($V_{2SC} < +50\text{km}$, $\theta < 40^\circ$): $\Sigma=278$



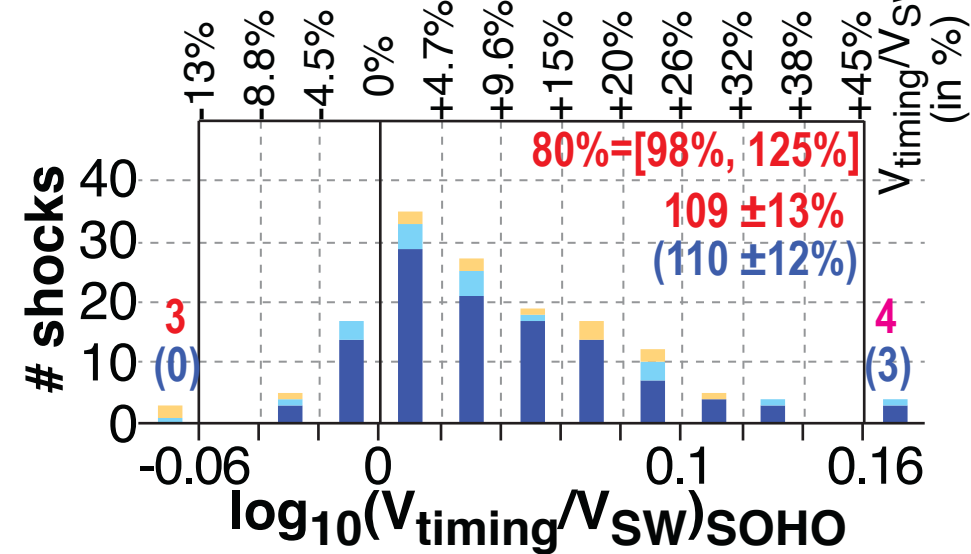
(e) Clean ($V_{2SC} < +50\text{km}$, $\theta < 40^\circ$): $\Sigma=278$



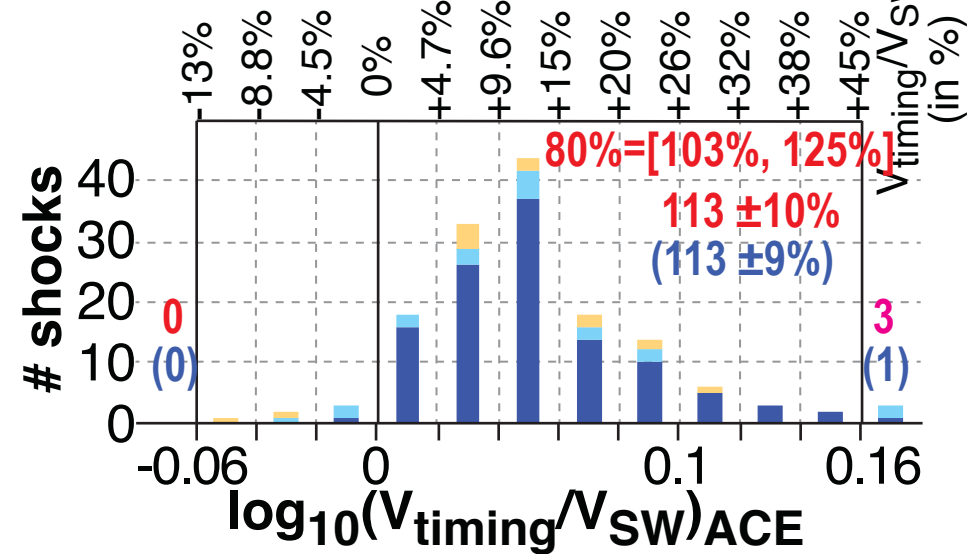
(h) Clean ($V_{2SC} < +50\text{km}$, $\theta < 40^\circ$): $\Sigma=278$



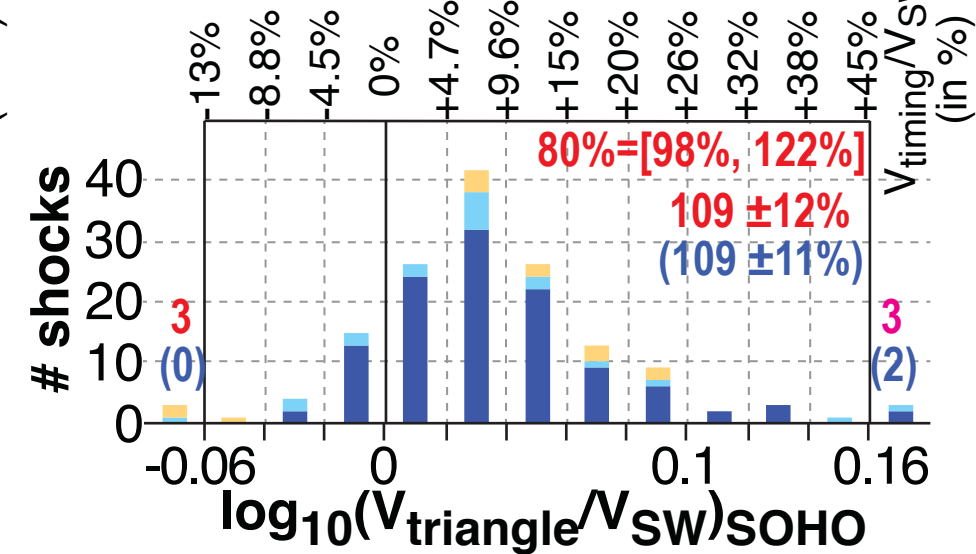
(c) Best ($V_{2SC} < -150\text{km}$, $\theta < 17^\circ$): $\Sigma=148$



(f) Best ($V_{2SC} < -150\text{km}$, $\theta < 17^\circ$): $\Sigma=148$



(i) Best ($V_{2SC} < -150\text{km}$, $\theta < 17^\circ$): $\Sigma=148$



■ clear SC (by both methods)
 ■ clear SC (by only SYM-H)
 ■ weak SC