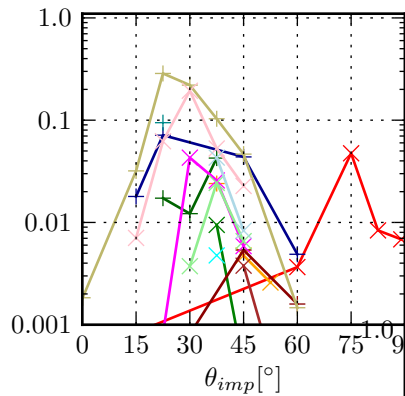
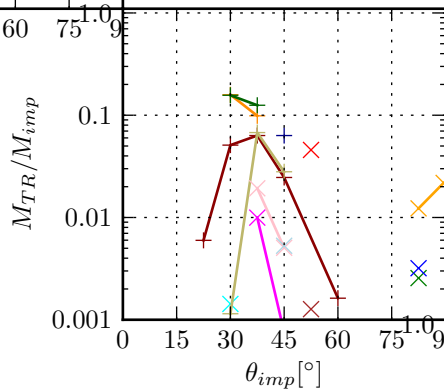
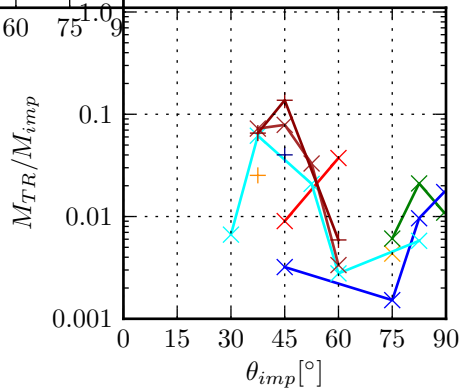


r3

 $\gamma = 0.50$ $\gamma = 0.20$ $\gamma = 0.10$ $M_{tar} = 0.2 M_{\oplus}$
 M_{TR}/M_{imp}  $M_{tar} = 0.5 M_{\oplus}$
 M_{TR}/M_{imp}  $M_{tar} = 1.0 M_{\oplus}$
 M_{TR}/M_{imp}  v_{imp}/v_{esc} 