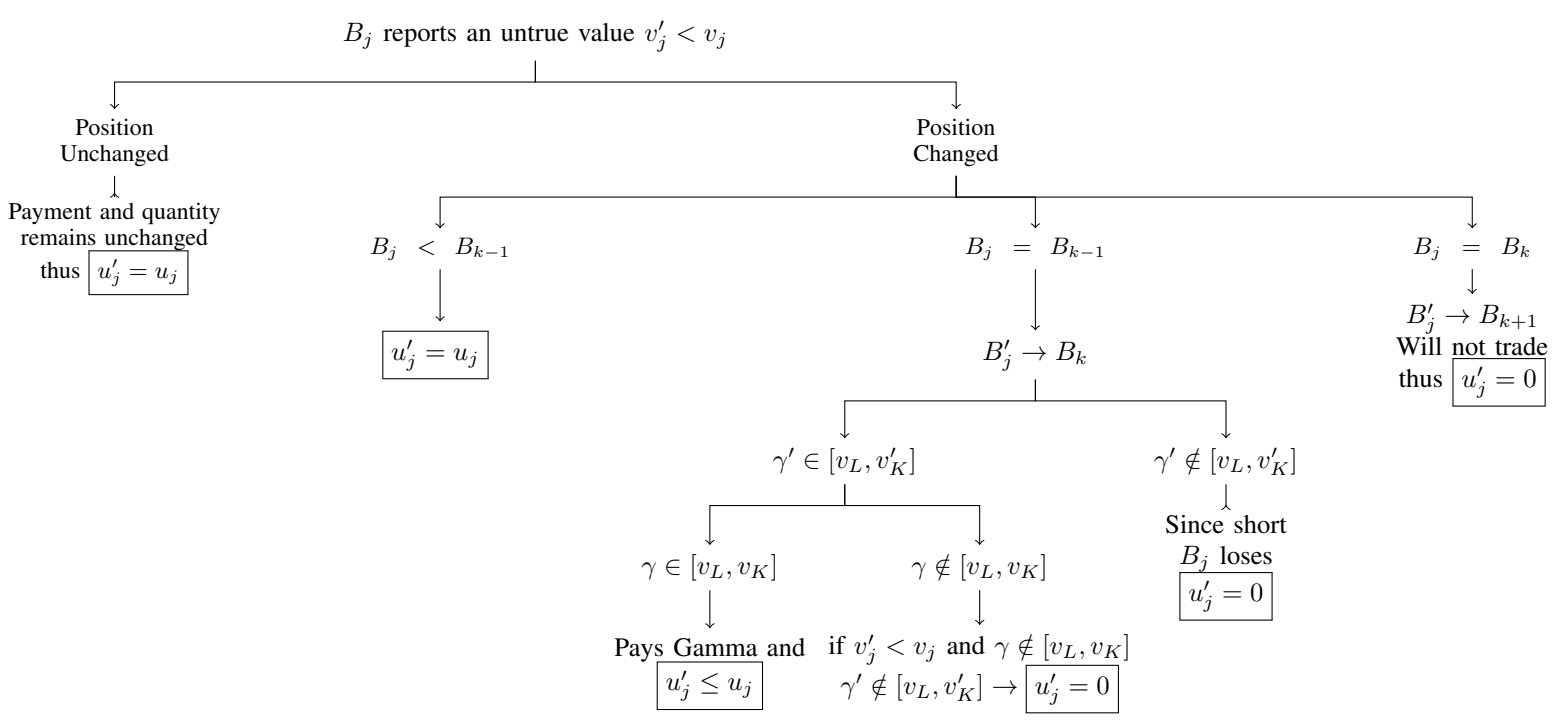
B_j reports an untrue value $v'_j < v_j$
Position Unchanged
Payment and quantity remains unchanged thus $u'_j = u_j$
Position Changed
$B_j < B_{k-1}$
$u'_j = u_j$
$B_j = B_{k-1}$
$B'_j \to B_k$
$\gamma' \in [v_L, v'_K]$
$\gamma \in [v_L, v_K]$
Pays Gamma and $u'_j \leq u_j$
$\gamma \notin [v_L, v_K]$
if $v'_j < v_j$ and $\gamma \notin [v_L, v_K]$ $\gamma' \notin [v_L, v'_K] \to u'_j = 0$
$\gamma' \notin [v_L, v'_K]$
Since short B_j loses $u'_j = 0$
$B_j = B_k$
$B'_j \to B_{k+1}$
Will not trade thus $u'_j = 0$