AlphaT Trigger Turn on

Y. Eshaq October 5, 2014

375 - 475 *GeV*

PF					
nJet	$HT250 \otimes a_T0.55$	$HT300 \otimes a_T0.53$	$HT350 \otimes a_T0.52$		
$\leq 3j$	$0.907^{+0.007}_{-0.007}$	$0.942^{+0.005}_{-0.006}$	$0.859^{+0.008}_{-0.008}$		
$\geq 4j$	$0.863^{+0.014}_{-0.015}$	$0.905^{+0.012}_{-0.013}$	$0.852^{+0.015}_{-0.016}$		
Calo					
nJet			$HT350 \otimes a_T0.52$		
<u>≤ 3<i>j</i></u>	$0.968^{+0.004}_{-0.005}$	$0.992^{+0.002}_{-0.002}$	$0.994^{+0.002}_{-0.002}$		
$\geq 4j$	$0.951^{+0.010}_{-0.011}$	$0.993^{+0.003}_{-0.005}$	$0.987^{+0.005}_{-0.006}$		

475 - 575 *GeV*

PF					
$\leq 3j$	$0.908^{+0.012}_{-0.013}$	$0.954^{+0.009}_{-0.010}$	$0.962^{+0.008}_{-0.009}$	$0.963^{+0.008}_{-0.009}$	
$\geq 4j$	$0.895^{+0.017}_{-0.019}$	$0.943^{+0.013}_{-0.015}$	$0.946^{+0.012}_{-0.014}$	$0.922^{+0.015}_{-0.017}$	

Calo					
nJet	$HT250 \otimes a_T0.55$	$HT300 \otimes a_T0.53$	$HT350 \otimes a_T0.52$	$HT400 \otimes a_T0.51$	
$\leq 3j$	$0.983^{+0.005}_{-0.007}$	$0.996^{+0.002}_{-0.004}$	$0.998^{+0.002}_{-0.003}$	$0.998^{+0.002}_{-0.003}$	
$\geq 4j$	$0.971^{+0.009}_{-0.012}$	$1.000^{+0.000}_{-0.004}$	$0.996^{+0.003}_{-0.006}$	$1.000^{+0.000}_{-0.004}$	

575 - 675 *GeV*

PF					
nJet	$HT300 \otimes a_T0.53$	$HT350 \otimes a_T0.52$	$HT400 \otimes a_T0.51$		
$\leq 3j$	$0.920^{+0.019}_{-0.023}$	$0.937^{+0.017}_{-0.020}$	$0.954^{+0.014}_{-0.018}$		
$\geq 4j$	$0.935^{+0.018}_{-0.022}$	$0.955^{+0.015}_{-0.019}$	$0.987^{+0.007}_{-0.012}$		
Calo					
$nJet \ HT300 \otimes a_T 0.53 HT350 \otimes a_T 0.52 HT400 \otimes a_T 0.51 $					
<u>≤ 3<i>j</i></u>		$0.985^{+0.008}_{-0.014}$	$0.985^{+0.008}_{-0.014}$		
> 4i	$0.992^{+0.006}_{-0.012}$	$1.000^{+0.000}_{-0.000}$	$1.000^{+0.000}_{-0.000}$		

			PF		
	II.				1075 < <i>HT</i>
<u>≤</u> 3	$0.984^{+0.012}_{-0.025}$	$1.000^{+0.000}_{-0.064}$	$1.000^{+0.000}_{-0.153}$	$1.000^{+0.000}_{-0.642}$	$1.000^{+0.000}_{-0.642} \\ 1.000^{+0.000}_{-0.548}$
<u>≥ 4</u>	$0.983^{+0.013}_{-0.026}$	$0.963^{+0.028}_{-0.058}$	$1.000^{+0.000}_{-0.156}$	$1.000^{+0.000}_{-0.470}$	$1.000^{+0.000}_{-0.548}$
Calo					
nJet	675 – 775	775 — 875	875 — 975	975 - 1075	1075 < <i>HT</i>
<u>≤</u> 3	$0.984^{+0.012}_{-0.025}$	$1.000^{+0.000}_{-0.064}$	$1.000^{+0.000}_{-0.153}$	$1.000^{+0.000}_{-0.642}$	$1.000^{+0.000}_{-0.642}$
<u>≥ 4</u>	$0.983^{+0.013}_{-0.026}$	$0.963^{+0.028}_{-0.058}$	$1.000^{+0.000}_{-0.156}$	$1.000^{+0.000}_{-0.470}$	$1.000^{+0.000}_{-0.548}$