

without signal contamination

variable 1 (x-axis) - variable 2 (y-axis)	fit function	estimate	statistical error
$ \eta $ - HT	[0]	151	67
$ \eta $ - $\Delta\varphi(\text{HEMI})$	[0]	315	102
$\min \Delta\varphi$ - $ \eta $	expo	73	80
$\min \Delta\varphi$ - HT	[0]	180	52
$\Delta\varphi(\text{HEMI})$ - $\min \Delta\varphi$	[0]	124	12
HT - $\Delta\varphi(\text{HEMI})$	[0]	218	127
MET - $\min \Delta\varphi$	expo	153	65
MET - $ \eta $	[0]	238	50
MET - $\Delta\varphi(\text{HEMI})$	$[0]+x*[1]$	155	21
MET - HT	$[0]+x*[1]$	98	44
true QCD: 138	Signal LMI: 670	137.5	± 9.4

signal contamination included

variable 1 (x-axis) - variable 2 (y-axis)	fit function	estimate	statistical error
$ \eta $ - HT	[0]	318	111
$ \eta $ - $\Delta\varphi(\text{HEMI})$	[0]	535	141
$ \eta $ - min $\Delta\varphi$	[0]	638	139
min $\Delta\varphi$ - HT	[0]	302	69
$\Delta\varphi(\text{HEMI})$ - min $\Delta\varphi$	[0]	151	13
HT - $\Delta\varphi(\text{HEMI})$	[0]	280	148
MET - min $\Delta\varphi$	expo	159	68
MET - $ \eta $	[0]	510	59
MET - $\Delta\varphi(\text{HEMI})$	[0]+x*[1]	170	21
MET - HT	[0]+x*[1]	151	57
true QCD: 138	Signal LMI: 670	176.8	± 10.3