		kinematic region		$3 < E_T[Gev] < 7$			$7 < E_T[Gev] < 10$			$10 < E_T[Gev] < 15$	
Det. Region	Method	Туре	$P_D[\%]$	SP[%]	$P_F[\%]$	$P_D[\%]$	SP[%]	$P_F[\%]$	$P_D[\%]$	SP[%]	$P_F[\%]$
$0.00 < \eta < 0.80$	CutBased	Reference	86.10	82.31	21.38	91.96	85.45	20.82	95.54	87.82	19.57
	$NN_{v9_{nohad}}(data17+18)$	Cross Validation	86.08±0.04	90.64 ± 0.03	4.69 ± 0.04	91.95±0.02	92.87 ± 0.03	6.21 ± 0.06	95.54 ± 0.01	93.31 ± 0.02	8.88 ± 0.05
	$NN_{v9}(data17+18)$	Cross Validation	86.09±0.05	91.00 ± 0.02	3.94 ± 0.02	91.95±0.02	93.60 ± 0.02	4.73 ± 0.03	95.53±0.01	94.66 ± 0.03	6.20 ± 0.06
$0.80 < \eta < 1.37$	CutBased	Reference	87.09	66.35	51.54	92.64	68.49	51.98	96.00	75.46	42.59
	$NN_{v9_{nobad}}(data17 + 18)$	Cross Validation	87.09±0.04	90.71 ± 0.04	5.59 ± 0.08	92.63±0.03	92.32 ± 0.03	7.98 ± 0.05	95.99 ± 0.02	92.54 ± 0.10	10.84 ± 0.20
	$NN_{v9}(data17+18)$	Cross Validation	87.07±0.04	90.91 ± 0.03	5.16 ± 0.03	92.63±0.02	92.79 ± 0.03	7.05 ± 0.06	95.98±0.02	93.36 ± 0.12	$9.23{\pm}0.25$
$1.37 < \eta < 1.54$	CutBased	Reference	81.74	62.49	54.15	87.54	66.75	51.20	92.06	70.20	48.69
	$NN_{v9_{nobad}}(data17+18)$	Cross Validation	81.74 ± 0.00	85.64 ± 0.12	10.37 ± 0.24	87.54±0.00	87.45 ± 0.27	12.63 ± 0.54	92.06 ± 0.00	89.85 ± 0.52	12.33 ± 1.03
	$NN_{v9}(data17+18)$	Cross Validation	81.74 ± 0.00	86.04 ± 0.09	$9.55{\pm}0.19$	87.54±0.00	88.18 ± 0.19	11.18 ± 0.38	92.06 ± 0.00	$91.65 {\pm} 0.16$	8.77±0.32
$1.54 < \eta < 2.37$	CutBased	Reference	79.00	75.18	28.56	86.94	80.70	25.31	92.08	84.25	23.24
	$NN_{v9_{nobad}}(data17 + 18)$	Cross Validation	78.98 ± 0.06	85.86 ± 0.03	6.98 ± 0.08	86.95±0.05	89.72 ± 0.04	7.47 ± 0.08	92.06 ± 0.05	91.57 ± 0.09	8.91 ± 0.18
	$NN_{v9}(data17+18)$	Cross Validation	79.00 ± 0.08	86.17 ± 0.04	6.33 ± 0.03	86.96±0.05	90.23 ± 0.04	6.44 ± 0.06	92.06±0.04	92.26 ± 0.06	7.54 ± 0.14
$2.37 < \eta < 2.50$	CutBased	Reference	84.62	66.89	48.74	90.41	69.76	48.20	90.97	67.50	52.43
	$NN_{v9_{nobad}}(data17 + 18)$	Cross Validation	84.62±0.00	85.58 ± 0.17	13.44 ± 0.34	90.41±0.00	87.25 ± 0.25	15.85 ± 0.50	90.97 ± 0.00	83.71 ± 1.24	23.23 ± 2.36
	$NN_{v9}(data17+18)$	Cross Validation	84.62±0.00	86.15 ± 0.19	12.29 ± 0.39	90.41±0.00	88.22 ± 0.20	$13.95 {\pm} 0.40$	90.97±0.00	85.38 ± 1.02	$20.02{\pm}1.96$
$1.37 < \eta < 1.54$ $1.54 < \eta < 2.37$	$NN_{v9}(data17 + 18)$ $CutBased$ $NN_{v9_{nohad}}(data17 + 18)$ $NN_{v9_{nohad}}(data17 + 18)$ $CutBased$ $NN_{v9_{nohad}}(data17 + 18)$ $NN_{v9_{nohad}}(data17 + 18)$ $CutBased$ $NN_{v9_{nohad}}(data17 + 18)$	Cross Validation Reference Cross Validation Cross Validation Reference Cross Validation Cross Validation Reference Cross Validation	87.07±0.04 81.74 81.74±0.00 81.74±0.00 79.00 78.98±0.06 79.00±0.08 84.62 84.62±0.00	90.91 ± 0.03 62.49 85.64 ± 0.12 86.04 ± 0.09 75.18 85.86 ± 0.03 86.17 ± 0.04 66.89 85.58 ± 0.17	5.16 ± 0.03 54.15 10.37 ± 0.24 9.55 ± 0.19 28.56 6.98 ± 0.08 6.33 ± 0.03 48.74 13.44 ± 0.34	92.63±0.02 87.54 87.54±0.00 87.54±0.00 86.94 86.95±0.05 86.96±0.05 90.41 90.41±0.00	92.79±0.03 66.75 87.45±0.27 88.18±0.19 80.70 89.72±0.04 90.23±0.04 69.76 87.25±0.25	7.05±0.06 51.20 12.63±0.54 11.18±0.38 25.31 7.47±0.08 6.44±0.06 48.20 15.85±0.50	95.98±0.02 92.06 92.06±0.00 92.06±0.00 92.08 92.06±0.05 92.06±0.04 90.97 90.97±0.00	$\begin{array}{c} 93.36 \pm 0.12 \\ \hline 70.20 \\ 89.85 \pm 0.52 \\ 91.65 \pm 0.16 \\ 84.25 \\ 91.57 \pm 0.09 \\ 92.26 \pm 0.06 \\ \hline 67.50 \\ 83.71 \pm 1.24 \end{array}$	9.23± 48.0 12.33± 8.77± 23.: 8.91± 7.54± 52.0 23.23±