

Phase space bin	$m(p\pi^+)$	$m(p\pi_{\text{slow}}^-)$	$m(\pi^+\pi_{\text{slow}}^-), m(\pi^+\pi_{\text{fast}}^-)$	$ \Phi $
1	(1.07, 1.23)			$(0, \frac{\pi}{2})$
2	(1.07, 1.23)			$(\frac{\pi}{2}, \pi)$
3	(1.23, 1.35)			$(0, \frac{\pi}{2})$
4	(1.23, 1.35)			$(\frac{\pi}{2}, \pi)$
5	(1.35, 5.34)	(1.07, 2.00)	$m(\pi^+\pi_{\text{slow}}^-) < 0.78$ or $m(\pi^+\pi_{\text{fast}}^-) < 0.78$	$(0, \frac{\pi}{2})$
6	(1.35, 5.34)	(1.07, 2.00)	$m(\pi^+\pi_{\text{slow}}^-) < 0.78$ or $m(\pi^+\pi_{\text{fast}}^-) < 0.78$	$(\frac{\pi}{2}, \pi)$
7	(1.35, 5.34)	(1.07, 2.00)	$m(\pi^+\pi_{\text{slow}}^-) > 0.78$ and $m(\pi^+\pi_{\text{fast}}^-) > 0.78$	$(0, \frac{\pi}{2})$
8	(1.35, 5.34)	(1.07, 2.00)	$m(\pi^+\pi_{\text{slow}}^-) > 0.78$ and $m(\pi^+\pi_{\text{fast}}^-) > 0.78$	$(\frac{\pi}{2}, \pi)$
9	(1.35, 5.34)	(2.00, 4.00)	$m(\pi^+\pi_{\text{slow}}^-) < 0.78$ or $m(\pi^+\pi_{\text{fast}}^-) < 0.78$	$(0, \frac{\pi}{2})$
10	(1.35, 5.34)	(2.00, 4.00)	$m(\pi^+\pi_{\text{slow}}^-) < 0.78$ or $m(\pi^+\pi_{\text{fast}}^-) < 0.78$	$(\frac{\pi}{2}, \pi)$
11	(1.35, 5.34)	(2.00, 4.00)	$m(\pi^+\pi_{\text{slow}}^-) > 0.78$ and $m(\pi^+\pi_{\text{fast}}^-) > 0.78$	$(0, \frac{\pi}{2})$
12	(1.35, 5.34)	(2.00, 4.00)	$m(\pi^+\pi_{\text{slow}}^-) > 0.78$ and $m(\pi^+\pi_{\text{fast}}^-) > 0.78$	$(\frac{\pi}{2}, \pi)$

binning_definition_tab.tex