

J/ψ y bin	2.0–2.25	2.25–2.5	2.5–2.75	2.75–3.0	3.0–3.25				
W_+ (GeV)	581	658	746	845	958				
$k_+ dn/dk_+ (\times 10^{-3})$	22.7	21.6	20.4	19.2	18.0				
$r(W_+)$	0.786	0.774	0.762	0.748	0.732				
W_- (GeV)	69.4	61.2	54.0	47.7	42.1				
$k_- dn/dk_- (\times 10^{-3})$	42.5	43.7	44.9	46.0	47.2				
$r(W_-)$	0.885	0.888	0.891	0.893	0.896				
$\sigma_{\gamma p \rightarrow J/\psi p(W_-)}$ (nb)									
Power law	68.0	62.6	57.6	52.9	48.7				
JMRT NLO	65.3	59.5	54.1	49.1	44.5	$\psi(2S)$ y bin	2.0–3.0	3.0–3.5	3.5–4.5
Calculated:						W_+ (GeV)	772	1115	1634
$\sigma_{\gamma p \rightarrow J/\psi p(W_+)}$ (nb)						$k_+ dn/dk_+ (\times 10^{-3})$	21.5	18.5	14.4
Power Law	291	335	321	339	358	$r(W_+)$	0.787	0.762	0.677
JMRT NLO	297	343	330	350	371	W_- (GeV)	63.4	43.2	29.9
						$k_- dn/dk_- (\times 10^{-3})$	45.3	49.9	52.4
J/ψ y bin	3.25–3.50	3.50–3.75	3.75–4.0	4.0–4.25	4.25–4.5	$r(W_-)$	0.911	0.942	0.926
W_+ (GeV)	1085	1230	1394	1579	1790	$\sigma_{\gamma p \rightarrow \psi(2S)p(W_-)}$ (nb)			
$k_+ dn/dk_+ (\times 10^{-3})$	16.8	15.7	14.5	13.3	12.1	Power law	10.6	8.2	6.4
$r(W_+)$	0.715	0.695	0.672	0.647	0.618	Calculated:			
W_- (GeV)	37.1	32.8	28.9	25.5	22.5	$\sigma_{\gamma p \rightarrow \psi(2S)p(W_+)}$ (nb)			
$k_- dn/dk_- (\times 10^{-3})$	48.3	49.5	50.7	51.8	53.0	Power Law	64	55	88
$r(W_-)$	0.898	0.901	0.903	0.905	0.907				
$\sigma_{\gamma p \rightarrow J/\psi p(W_-)}$ (nb)									
Power law	44.8	41.2	37.9	34.8	32.0				
JMRT NLO	40.2	36.3	32.7	29.5	26.4				
Calculated:									
$\sigma_{\gamma p \rightarrow J/\psi p(W_+)}$ (nb)									
Power Law	395	403	403	456	524				
JMRT NLO	411	423	427	485	560				