

Observable	JES		JER	Model	Trigger	Vertex	Lum.	Stat	Total	
	Upper	Lower							Upper	Lower
Absolute cross section (%)										
$p_{T,1}$	11–39	9–30	2–26	0–16	< 1	< 1	1.2	1–10	11–51	10–44
$p_{T,2}$	11–31	10–24	0–2	0–7	< 1	< 1	1.2	1–8	14–33	11–26
$p_{T,3}$	1–31	7–24	1–3	2–7	< 1	< 1	1.2	2–15	13–33	13–25
$p_{T,4}$	10–25	0–21	1–8	2–7	< 1	< 1	1.2	4–31	14–34	13–32
$\eta_1$	22–33	18–28	< 1	1–9	< 1	< 1	1.2	3–5	22–34	19–29
$\eta_2$	22–30	18–26	< 1	0–6	< 1	< 1	1.2	3–6	23–31	18–26
$\eta_3$	21–29	18–24	< 1	0–7	< 1	< 1	1.2	3–5	22–30	19–25
$\eta_4$	19–29	16–24	< 1	1–8	< 1	< 1	1.2	3–4	19–30	17–25
$\Delta\phi_{\text{Soft}}$	21–24	19–20	< 1	1–7	< 1	< 1	1.2	3–4	22–25	20–22
$\Delta\phi_{3j}^{\text{min}}$	21–28	18–24	< 1	1–6	< 1	< 1	1.2	3–7	21–29	19–25
$\Delta Y$	22–25	16–33	< 1	0–6	< 1	< 1	1.2	3–6	23–26	17–34
$\phi_{ij}$	23–26	19–22	< 1	0–7	< 1	< 1	1.2	3–4	24–27	19–22
$\Delta p_{T,\text{Soft}}$	22–25	19–20	0–3	2–6	< 1	< 1	1.2	3–4	23–26	19–21
$\Delta S$	4–34	13–20	< 1	0–5	< 1	< 1	1.2	3–13	12–37	15–22
Bin-normalized cross section (%)										
$\Delta\phi_{\text{Soft}}$	0–1	0–1	< 1	0–4	< 1	< 1	—	3–4	3–6	3–6
$\Delta\phi_{3j}^{\text{min}}$	0–5	0–4	< 1	0–4	< 1	< 1	—	3–7	4–8	3–8
$\Delta Y$	0–2	0–18	< 1	0–5	< 1	< 1	—	3–6	3–10	3–21
$\phi_{ij}$	0–3	0–2	< 1	0–4	< 1	< 1	—	3–4	3–6	3–6
$\Delta p_{T,\text{Soft}}$	0–2	0–2	0–2	0–2	< 1	< 1	—	3–4	3–5	3–5
$\Delta S$	0–16	0–7	< 1	0–7	< 1	< 1	—	3–13	3–22	3–15