DCA $\Lambda(\bar{\Lambda})$

Pair Type	Centrality	p-value	
		4 vs 5 mm	5 vs 6 mm
ΛK^+	0-10%	0.01	3.2e-5
	10-30%	5.9e-3	0.22
	30-50%	0.85	0.84
$\bar{\Lambda} K^-$	0-10%	0.15	0.03
	10-30%	3.1e-4	0.42
	30-50%	7.2e-3	0.42
ΛK^-	0-10%	0.35	0.05
	10-30%	1.4e-5	5.6e-3
	30-50%	0.05	0.70
$\bar{\Lambda} K^+$	0-10%	0.84	0.16
	10-30%	0.16	3.3e-3
	30-50%	2.5e-4	0.20

Table 1: $\Lambda(\bar{\Lambda})K^{\pm}$ Analyses: DCA $\Lambda(\bar{\Lambda})$

DCA $\Lambda(\bar{\Lambda})$ Daughters

Pair Type	Centrality	p-value	
		3 vs 4 mm	4 vs 5 mm
ΛK^+	0-10%	0.79	0.06
	10-30%	0.10	0.60
	30-50%	8.4e-3	0.25
$\bar{\Lambda} K^-$	0-10%	2.4e-4	0.63
	10-30%	0.06	3.3e-4
	30-50%	0.03	0.04
ΛK^-	0-10%	0.70	0.40
	10-30%	0.94	0.04
	30-50%	0.05	9.5e-5
$\bar{\Lambda} K^+$	0-10%	0.09	0.04
	10-30%	0.10	0.17
	30-50%	0.10	0.43

Table 2: $\Lambda(\bar{\Lambda})K^{\pm}$ Analyses: DCA $\Lambda(\bar{\Lambda})$ Daughters

0.1 Systematic Errors: $\Lambda K^{\pm}$

Talk about stuff

$\Lambda(\bar{\Lambda})$ Cosine of Pointing Angle

Pair Type	Centrality	p-value	
		0.9992 vs 0.9993	0.9993 vs 0.9994
ΛK^+	0-10%	0.08	6.2e-3
	10-30%	8.7e-4	0.06
	30-50%	0.31	1.1e-3
$\bar{\Lambda} K^-$	0-10%	0.98	0.92
	10-30%	0.06	1.4e-16
	30-50%	0.47	0.40
ΛK^-	0-10%	1.0e-4	6.3e-3
	10-30%	5.7e-5	2.3e-3
	30-50%	1.9e-3	6.5e-3
$\bar{\Lambda} K^+$	0-10%	0.08	0.01
	10-30%	0.09	0.04
	30-50%	0.39	0.34

Table 3: $\Lambda(\bar{\Lambda})K^{\pm}$ Analyses: $\Lambda(\bar{\Lambda})$ Cosine of Pointing Angle

DCA to Primary Vertex of $p^+(\bar{p}^-)$ Daughter of $\Lambda(\bar{\Lambda})$

Pair Type	Centrality	p-value	
		0.5 vs 1.0 mm	1.0 vs 2.0 mm
ΛK^+	0-10%	1	5.5e-3
	10-30%	1	0.15
	30-50%	1	0.13
$\bar{\Lambda} K^-$	0-10%	1	0.16
	10-30%	1	0.55
	30-50%	1	0.03
ΛK^-	0-10%	1	0.30
	10-30%	1	0.70
	30-50%	1	0.44
$\bar{\Lambda} K^+$	0-10%	1	0.40
	10-30%	1	0.67
	30-50%	1	0.03

Table 4: $\Lambda(\bar{\Lambda})K^{\pm}$ Analyses: DCA to Primary Vertex of $p^+(\bar{p}^-)$ Daughter of $\Lambda(\bar{\Lambda})$

DCA to Primary Vertex of $\pi^-(\pi^+)$ Daughter of $\Lambda(\bar{\Lambda})$

Pair Type	Centrality	p-value	
		2.0 vs 3.0 mm	3.0 vs 4.0 mm
ΛK^+	0-10%	0.01	0.15
	10-30%	0.28	0.08
	30-50%	1.9e-8	6.1e-4
$\bar{\Lambda} K^-$	0-10%	0.55	0.36
	10-30%	0.38	0.31
	30-50%	8.4e-4	0.03
ΛK^-	0-10%	7.7e-3	0.35
	10-30%	0.01	4.0e-3
	30-50%	0.02	0.06
$\bar{\Lambda} K^+$	0-10%	0.12	0.01
	10-30%	0.63	4.1e-3
	30-50%	6.2e-11	0.44

Table 5: $\Lambda(\bar{\Lambda})K^{\pm}$ Analyses: DCA to Primary Vertex of $\pi^-(\pi^+)$ Daughter of $\Lambda(\bar{\Lambda})$

Average Separation of $\Lambda(\bar{\Lambda})$ Daughter With Same Charge as $K^{\pm}$

Pair Type	Daughter	Track	Centrality	p-value	
				5.0 vs 6.0 cm	6.0 vs 7.0 cm
ΛK^+	p(Λ)	K^+	0-10%	2.1e-41	1.9e-186
			10-30%	0.86	0.61
			30-50%	0.999	0.10
$\bar{\Lambda} K^-$	$\bar{p}^-(\bar{\Lambda})$	K^-	0-10%	3.7e-78	0.00
			10-30%	1.4e-27	9.6e-62
			30-50%	0.00	4.4e-3
ΛK^-	$\pi^-(\Lambda)$	K^-	0-10%	1.0e-236	5.1e-243
			10-30%	6.2e-17	4.6e-43
			30-50%	0.09	0.99
$\bar{\Lambda} K^+$	$\pi^+(\bar{\Lambda})$	K^+	0-10%	1.4e-76	6.9e-46
			10-30%	4.7e-14	0.61
			30-50%	3.0e-14	3.3e-4

Table 6: $\Lambda(\bar{\Lambda})K^0_S$ Analyses: Average Separation of $\Lambda(\bar{\Lambda})$ Daughter With Same Charge as $K^{\pm}$