Fit Results $\Lambda(\bar{\Lambda})K_S^0$

		Fit Parameters						
Pair Type	Centrality	λ	R	$\mathbb{R}f_0$	$\mathbb{I} f_0$	d_0		
ΛK_S^0	0-10%	- 0.60 ± 0.63 (stat.) ± 0.17 (sys.)	$2.94 \pm 0.45 \text{ (stat.)} \pm 0.35 \text{ (sys.)}$	$-0.40 \pm 0.12 \text{ (stat.)} \pm 0.17 \text{ (sys.)}$	$0.17 \pm 0.08 ({ m stat.}) \pm 0.12 ({ m sys.})$	$1.94 \pm 0.47 \text{ (stat.)} \pm 0.77 \text{ (sys.)}$		
	10-30%		$2.39 \pm 0.38 ({ m stat.}) \pm 0.25 ({ m sys.})$					
	30-50%		$1.81 \pm 0.29 ({ m stat.}) \pm 0.12 ({ m sys.})$					
$\bar{\Lambda} K_S^0$	0-10%		$2.94 \pm 0.45 ({ m stat.}) \pm 0.35 ({ m sys.})$					
	10-30%		$2.39 \pm 0.38 ({ m stat.}) \pm 0.25 ({ m sys.})$					
	30-50%		$1.81 \pm 0.29 ({ m stat.}) \pm 0.12 ({ m sys.})$					

Table 1: Fit Results $\Lambda(\bar{\Lambda})K_S^0$, with 10 residual correlations included. Each pair is fit simultaneously with its conjugate (ie. ΛK_S^0 with $\bar{\Lambda}K_S^0$) across all centralities (0-10%, 10-30%, 30-50%), for a total of 6 simultaneous analyses in the fit. Each analysis has a unique λ and normalization parameter. The radii are shared between analyses of like centrality, as these should have similar source sizes. The scattering parameters ($\mathbb{R}f_0$, $\mathbb{I}f_0$, d_0) are shared amongst all. The fit is done on the data with only statistical error bars. The errors marked as "stat." are those returned by MINUIT. The errors marked as "sys." are those which result from my systematic analysis (as outlined in Section ??).

Fit Results $\Lambda(\bar{\Lambda})K^{\pm}$

		Fit Parameters					
Pair Type	Centrality	λ	R	$\mathbb{R}f_0$	$\mathbb{I}f_0$	d_0	
ΛK^+	0-10%	1.51 ± 0.56 (stat.) ± 0.27 (sys.)	$5.92 \pm 1.08 \text{ (stat.)} \pm 0.51 \text{ (sys.)}$				
	10-30%	1.47 ± 0.55 (stat.) ± 0.31 (sys.)	4.98 ± 0.86 (stat.) ± 0.40 (sys.)				
	30-50%	$1.10 \pm 0.30 (\text{stat.}) \pm 0.27 (\text{sys.})$	$3.38 \pm 0.45 (\mathrm{stat.}) \pm 0.28 (\mathrm{sys.})$	$-1.38 \pm 0.32 \text{ (stat.)} \pm 0.34 \text{ (sys.)}$	$0.61 \pm 0.34 \text{ (stat.)} \pm 0.20 \text{ (sys.)}$	$0.97 \pm 0.66 \text{ (stat.)} \pm 0.42 \text{ (sys.)}$	
$\bar{\Lambda} K^-$	0-10%	1.52 ± 0.58 (stat.) ± 0.33 (sys.)	$5.92 \pm 1.08 (\mathrm{stat.}) \pm 0.51 (\mathrm{sys.})$	-1.36 ± 0.32 (stat.) ± 0.34 (sys.)	$0.01 \pm 0.54 \text{ (stat.)} \pm 0.20 \text{ (sys.)}$	0.97 ± 0.00 (stat.) ± 0.42 (sys.)	
	10-30%	$1.28 \pm 0.47 \text{ (stat.)} \pm 0.25 \text{ (sys.)}$	$4.98 \pm 0.86 \text{ (stat.)} \pm 0.40 \text{ (sys.)}$				
	30-50%	$1.06 \pm 0.28 \text{ (stat.)} \pm 0.16 \text{ (sys.)}$	$3.38 \pm 0.45 \text{ (stat.)} \pm 0.28 \text{ (sys.)}$				
ΛK ⁻	0-10%	$1.72 \pm 0.61 \text{ (stat.)} \pm 0.28 \text{ (sys.)}$	$6.54 \pm 1.22 (\mathrm{stat.}) \pm 0.90 (\mathrm{sys.})$				
	10-30%	1.24 ± 0.43 (stat.) ± 0.25 (sys.)	4.90 ± 0.94 (stat.) ± 0.64 (sys.)				
	30-50%	$1.34 \pm 0.75 \text{ (stat.)} \pm 0.42 \text{ (sys.)}$	$3.10 \pm 0.67 \text{ (stat.)} \pm 0.40 \text{ (sys.)}$	$0.53 \pm 0.20 (\text{stat.}) \pm 0.15 (\text{sys.})$	$0.57 \pm 0.17 \text{ (stat.)} \pm 0.11 \text{ (sys.)}$	$-4.13 \pm 1.74 \text{ (stat.)} \pm 1.53 \text{ (sys.)}$	
	0-10%	1.72 ± 0.58 (stat.) ± 0.31 (sys.)	$6.54 \pm 1.22 \text{ (stat.)} \pm 0.90 \text{ (sys.)}$	0.33 ± 0.20 (stat.) ± 0.13 (sys.)	0.57 ± 0.17 (stat.) ± 0.11 (sys.)	$-4.13 \pm 1.74 \text{ (stat.)} \pm 1.33 \text{ (sys.)}$	
$ar{\Lambda}\mathrm{K}^+$	10-30%	$1.33 \pm 0.46 (\text{stat.}) \pm 0.26 (\text{sys.})$	$4.90 \pm 0.94 (\mathrm{stat.}) \pm 0.64 (\mathrm{sys.})$				
	30-50%	$0.84 \pm 0.31 \text{ (stat.)} \pm 0.31 \text{ (sys.)}$	3.10 ± 0.67 (stat.) ± 0.40 (sys.)				

Table 2: Fit Results $\Lambda(\bar{\Lambda})K^{\pm}$, with 10 residual correlations included.. Each pair is fit simultaneously with its conjugate (ie. ΛK^+ with $\bar{\Lambda}K^-$ and ΛK^- with $\bar{\Lambda}K^+$) across all centralities (0-10%, 10-30%, 30-50%), for a total of 6 simultaneous analyses in the fit. Each analysis has a unique λ and normalization parameter. The radii are shared between analyses of like centrality, as these should have similar source sizes. The scattering parameters ($\mathbb{R}f_0$, $\mathbb{I}f_0$, d_0) are shared amongst all. The fit is done on the data with only statistical error bars. The errors marked as "sys." are those which result from my systematic analysis (as outlined in Section ??).