0.1 Correlation functions with fits

Figures 1, 2, and 3 show the experimental correlation functions with fits, assuming 3 residual contributors, for all ΛK systems (ΛK^+, ΛK^-, and ΛK^0_S, respectively) in all studied centralities. The parameter sets extracted from the fits can be found in Table **??**. Figures with a wider range in k^*, showing better the non-femtoscopic background, may be found in Appendix **??**. Also contained in Appendix **??** are plots demonstrating the contributions from the residuals, as well as results assuming 10 and no residual contributors.

In Figures 1 - 3, the pair system (e.g. ΛK^+) data is shown in the left column, and the conjugate pair system (e.g. $\bar{\Lambda} K^-$) in the right The rows differentiate the different centrality bins (0-10% in the top, 10-30% in the middle, and 30-50% in the bottom). The lines on the data represent the statistical errors, while the boxes represent the systematic errors. The fit procedure is as described in the text; in short, all systems are fit simultaneously with shared radii, while each [ΛK^+, ΛK^-, ΛK^0_S] maintains a unique set of scattering parameters. The black solid line represents the primary ΛK component of the fit. The green line shows the fit to the non-flat background. The purple points show the fit after all residuals' contributions have been included, and momentum resolution and non-flat background corrections have been applied. The extracted fit values with uncertainties are printed in the top left panel of each figure.

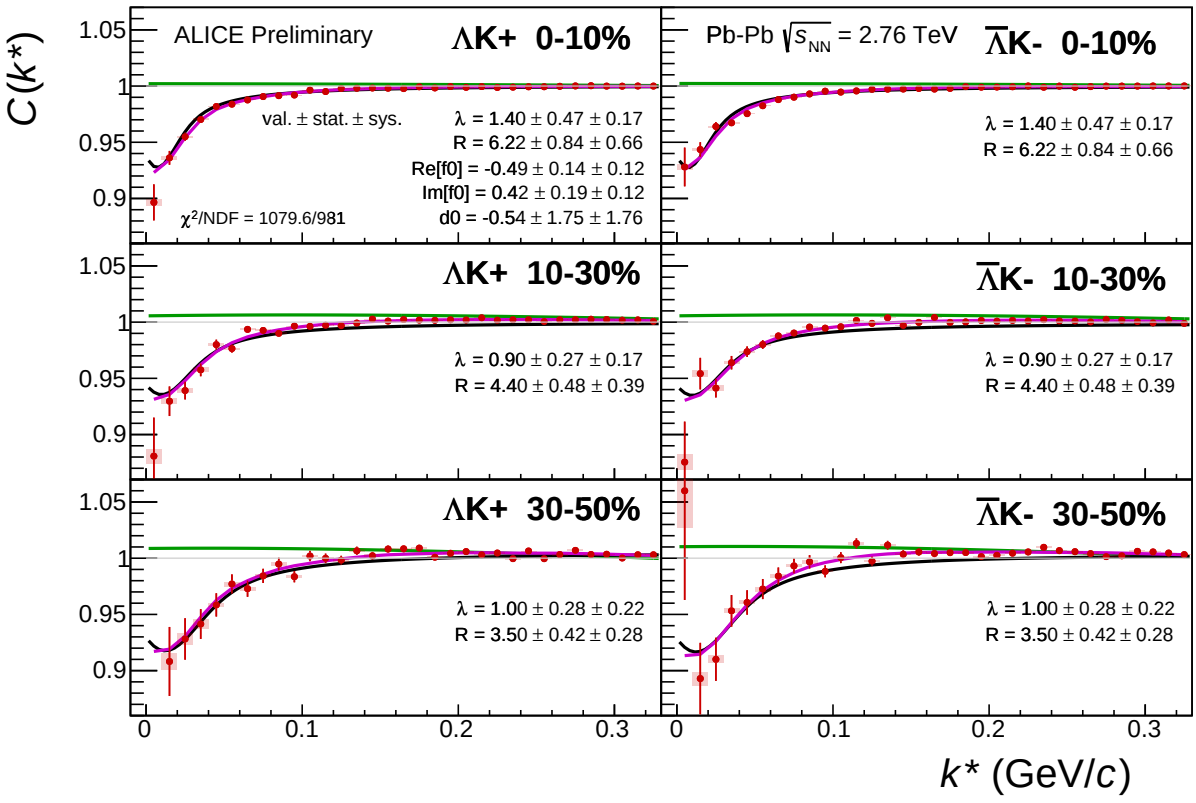

Fig. 1: Fit results, with 3 residual correlations included, for the ΛK^+ and $\bar{\Lambda} K^-$ data. The ΛK^+ data is shown in the left column, the $\bar{\Lambda} K^-$ in the right, and the rows differentiate the different centrality bins (0-10% in the top, 10-30% in the middle, and 30-50% in the bottom). See text for further details.

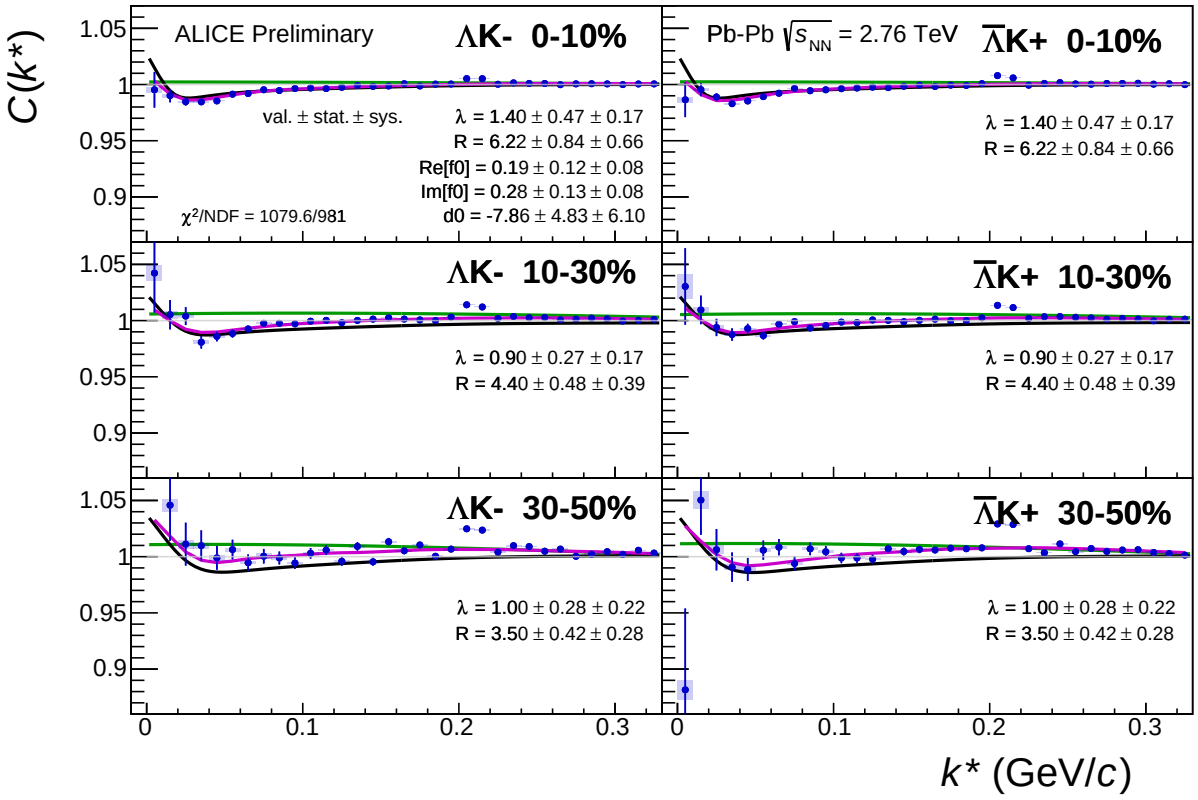

Fig. 2: Fit results, with 3 residual correlations included, for the ΛK^- and $\bar{\Lambda}K^+$ data. The ΛK^- data is shown in the left column, the $\bar{\Lambda}K^+$ in the right, and the rows differentiate the different centrality bins (0-10% in the top, 10-30% in the middle, and 30-50% in the bottom). See text for further details.

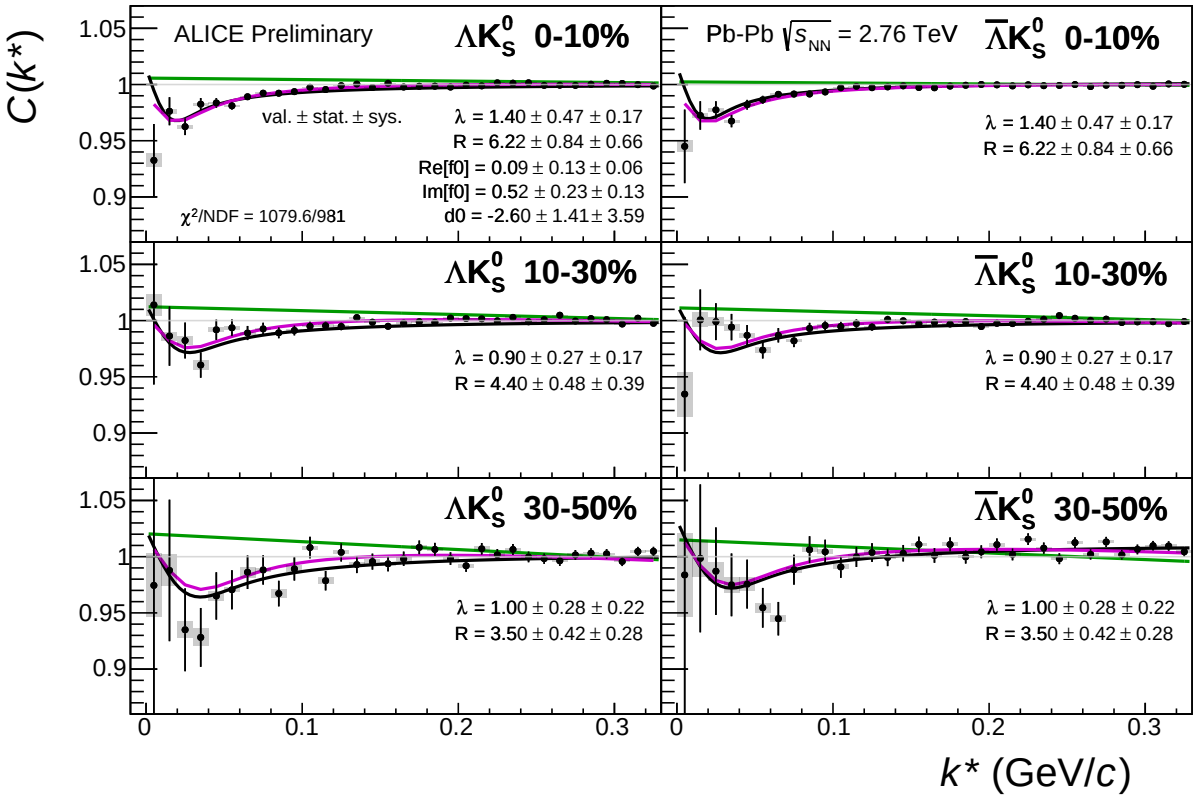

Fig. 3: Fit results, with 3 residual correlations included, for the ΛK^0_S and $\bar{\Lambda} K^0_S$ data. The ΛK^0_S data is shown in the left column, the $\bar{\Lambda} K^0_S$ in the right, and the rows differentiate the different centrality bins (0-10% in the top, 10-30% in the middle, and 30-50% in the bottom). See text for further details.