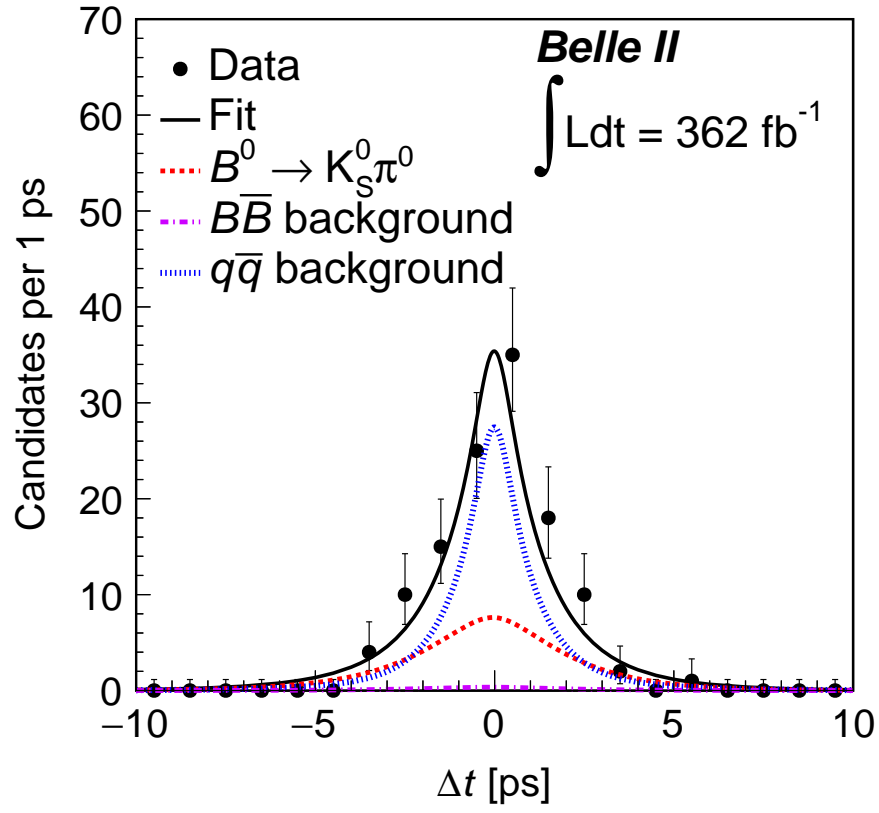Δt **FIT PROJECTION**

FIG. 1: Distributions of Δt with fit projections overlaid for both signal and background candidates satisfying the criteria $5.27 < M'_{\mathrm{bc}} < 5.29\,\mathrm{GeV}$, $-0.15 < \Delta E < 0.10\,\mathrm{GeV}$, and $C'_{\mathrm{BDT}} > 0.0$. The solid curve represent the fit projection, while various fit components are explained in the legends.