P_m	P_t
Signal	
Double-Gaussian ($2G$) $2G(m; m_0, \sigma_1, \sigma_2, f_2)$ m_0= 5366.5(3) MeV σ_1=8.6(3) MeV σ_2=26.8(9) MeV f_2= 0.14(2)	$P_t^{\rm sig}(t,q) = R(\hat{t},q) \otimes 3G(t-\hat{t}; \mu, \sigma_1^t, \sigma_2^t, \sigma_3^t, f_2^t, f_3^t)$ $\cdot A(t; a, n, t_0)$ $\mu = -0.0021(1)\,\text{ps}$, $-0.0011(1)\,\text{ps}$ $\sigma_1^t = 0.0300(4)\,\text{ps}$, $0.0295(5)\,\text{ps}$ $\sigma_2^t/\sigma_1^t = 1.92(4)$, $1.88(3)$ $\sigma_3^t/\sigma_1^t = 14.6(10)$, $14.0(9)$ $f_2^t = 0.23(2)$, $0.27(3)$ $f_3^t = 0.0136(6)$, $0.0121(7)$ $a = 1.89(7)\,\text{ps}^{-1}$, $n = 1.84(12)$, $t_0 = 0.127(15)\,\text{ps}$
Long-lived background	
Exponential	$[e^{-\hat{t}/\tau^{\rm bkg}} \otimes 2G(t-\hat{t}; \mu, \sigma_1^t, \sigma_2^t, f_2^t)] \cdot A(t; a, n, t_0)$ $\mu = 0$ $\sigma_1^t = 0.088\,\text{ps}$ $\sigma_2^t = 5.94\,\text{ps}$ $f_2^t = 0.0137$ $\tau^{\rm bkg} = 0.96\,\text{ps}$ $a = 4.44\,\text{ps}^{-1}$, $n = 4.56$, $t_0 = 0\,\text{ps}$
Short-lived background	
Exponential	$2G(t; \mu, \sigma_1^t, \sigma_2^t, f_2^t) \cdot A(t; a, n, t_0)$ All parameters are the same as for LL background