Supplementary material for LHCb-PAPER-2017-008

An alternative fit is performed in which all parameters including Δm_s are determined exclusively from the data in the m_{KK} region above 1.05 GeV. The results are presented in Table 1 and the correlation coefficients in Table 2.

Table 1: Result of a fit performed in the m_{KK} region above 1.05 GeV. All parameters, including Δm_s, were determined exclusively from data in this region. The uncertainties are the combined statistical and systematic.

	Value
Γ_s	0.6499 ± 0.0070 ps^{-1}
$\Delta\Gamma_s$	0.066 ± 0.020 ps^{-1}
ϕ_s	0.118 ± 0.113 rad
$\lvert\lambda\rvert$	0.994 ± 0.019
Δm_s	17.807 ± 0.076 ps^{-1}

Table 2: Correlation coefficients between parameters determined from data in the m_{KK} region above 1.05 GeV. These include statistical and systematic correlations.

	Γ_s	$\Delta\Gamma_s$	ϕ_s	$\lvert\lambda\rvert$	Δm_s
Γ_s	1.00	0.54	0.02	−0.03	−0.03
$\Delta\Gamma_s$		1.00	0.04	−0.06	−0.05
ϕ_s			1.00	−0.14	−0.01
$\lvert\lambda\rvert$				1.00	0.17
Δm_s					1.00