

Parameter	Fit result	Constraint
	Free	
N_{sig}	2469 ± 154	
$N_{D_s^+}$	20446 ± 509	
f_{D^+}	0.08 ± 0.01	
$f_{D^0}^{v_1 v_2}$	2.10 ± 0.30	
	Constrained	
$N_{B \rightarrow D^{*-} 3\pi X}$	2279 ± 177	2051 ± 200
$f_{B_s^0 \rightarrow D^{*-} D_s^+ (X)}$	0.13 ± 0.03	0.11 ± 0.04
$f_{D_{s1}^+}$	0.36 ± 0.03	0.40 ± 0.07
$f_{D_s^+}$	0.60 ± 0.02	0.55 ± 0.03
$f_{D_{s0}^{*+}}$	0.06 ± 0.03	0.11 ± 0.04
$f_{\bar{D}^{**} D_s^+ (X)}$	0.61 ± 0.06	0.34 ± 0.12
	Fixed	
$N_{B_1 B_2}$	46	
$N_{D^0}^{\text{same}}$	1051	
$N_{\text{fake } \bar{D}^0}$	468	
$N_{\text{fake } D^{*-}}$	714	
$f_{\bar{D}^{**} \tau + \nu}$	0.035	
$f_{\tau^+ \rightarrow 3\pi \bar{\nu}_\tau}$	0.780	