$D_0^*(2400)^\pm$

$I(J^P) = \frac{1}{2}(0^+)$

OMITTED FROM SUMMARY TABLE

J, P need confirmation.

$D_0^*(2400)^\pm$ MASS

VALUE (MeV)	*EVTS*	*DOCUMENT ID*		*TECN*	*COMMENT*
2351± 7 OUR AVERAGE					
2360±15±30		[1] AAIJ	15X	LHCB	$B^0 \to \overline{D}^0 K^+ \pi^-$
2349± 6± 4		[2] AAIJ	15Y	LHCB	$B^0 \to \overline{D}^0 \pi^+ \pi^-$
2403±14±35	18.8k	LINK	04A	FOCS	γ A
• • • We do not use the following data for averages, fits, limits, etc. • • •					
2354± 7±11		[3] AAIJ	15Y	LHCB	$B^0 \to \overline{D}^0 \pi^+ \pi^-$

[1] From the Dalitz plot analysis including various K^* and D^{**} mesons as well as broad structures in the $K\pi$ S-wave and the $D\pi$ S- and P-waves.
[2] Modeling the $\pi^+\pi^-$ S-wave with the Isobar formalism.
[3] Modeling the $\pi^+\pi^-$ S-wave with the K-matrix formalism.

$D_0^*(2400)^\pm$ WIDTH

VALUE (MeV)	*EVTS*	*DOCUMENT ID*		*TECN*	*COMMENT*
230±17 OUR AVERAGE Error includes scale factor of 1.1.					
255±26±51		[1] AAIJ	15X	LHCB	$B^0 \to \overline{D}^0 K^+ \pi^-$
217±13±13		[2] AAIJ	15Y	LHCB	$B^0 \to \overline{D}^0 \pi^+ \pi^-$
283±24±34	18.8k	LINK	04A	FOCS	γ A
• • • We do not use the following data for averages, fits, limits, etc. • • •					
230±15±21		[3] AAIJ	15Y	LHCB	$B^0 \to \overline{D}^0 \pi^+ \pi^-$

[1] From the Dalitz plot analysis including various K^* and D^{**} mesons as well as broad structures in the $K\pi$ S-wave and the $D\pi$ S- and P-waves.
[2] Modeling the $\pi^+\pi^-$ S-wave with the Isobar formalism.
[3] Modeling the $\pi^+\pi^-$ S-wave with the K-matrix formalism.

$D_0^*(2400)^\pm$ DECAY MODES

	Mode	Fraction (Γ_i/Γ)
Γ_1	$D^0\pi^+$	seen

$D_0^*(2400)^\pm$ REFERENCES

AAIJ	15X	PR D92 012012	R. Aaij *et al.*	(LHCb Collab.)
AAIJ	15Y	PR D92 032002	R. Aaij *et al.*	(LHCb Collab.)
LINK	04A	PL B586 11	J.M. Link *et al.*	(FOCUS Collab.)