

$D_0^*(2400)^\pm$ $I(J^P) = \frac{1}{2}(0^+)$

OMITTED FROM SUMMARY TABLE

J, P need confirmation. **$D_0^*(2400)^\pm$ MASS**

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	COMMENT
2351 \pm 7 OUR AVERAGE				
2360 \pm 15 \pm 30	1 AAIJ	15X LHCb	$B^0 \rightarrow \bar{D}^0 K^+ \pi^-$	
2349 \pm 6 \pm 4	2 AAIJ	15Y LHCb	$B^0 \rightarrow \bar{D}^0 \pi^+ \pi^-$	
2403 \pm 14 \pm 35	18.8k LINK	04A FOCS	γA	
• • • We do not use the following data for averages, fits, limits, etc. • • •				
2354 \pm 7 \pm 11	3 AAIJ	15Y LHCb	$B^0 \rightarrow \bar{D}^0 \pi^+ \pi^-$	
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 \pm 17 OUR AVERAGE Error includes scale factor of 1.1.				
255 \pm 26 \pm 51	1 AAIJ	15X LHCb	$B^0 \rightarrow \bar{D}^0 K^+ \pi^-$	
217 \pm 13 \pm 13	2 AAIJ	15Y LHCb	$B^0 \rightarrow \bar{D}^0 \pi^+ \pi^-$	
283 \pm 24 \pm 34	18.8k LINK	04A FOCS	γA	
• • • We do not use the following data for averages, fits, limits, etc. • • •				
230 \pm 15 \pm 21	3 AAIJ	15Y LHCb	$B^0 \rightarrow \bar{D}^0 \pi^+ \pi^-$	
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)
$\Gamma_1 D^0 \pi^+$	seen

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

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