

$D_0^*(2400)^\pm$

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

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)
$\Gamma_1 \quad D^0 \pi^+$	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.)