NODE=M179

$D_0^*(2300)^{\pm}$

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

OMITTED FROM SUMMARY TABLE
was $D_0^*(2400)^{\pm}$
J, P need confirmation.

NODE=M179

$D_0^*(2300)^{\pm}$ MASS

NODE=M179M

NODE=M179M

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

[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. NODE=M179M;LINKAGE=A
[2] Modeling the $\pi^+\pi^-$ S-wave with the Isobar formalism. NODE=M179M;LINKAGE=B
[3] Modeling the $\pi^+\pi^-$ S-wave with the K-matrix formalism. NODE=M179M;LINKAGE=C
[4] Possibly the feed-down from another state. NODE=M179M;LINKAGE=D

$D_0^*(2300)^{\pm}$ WIDTH

NODE=M179W

NODE=M179W

VALUE (MeV)	*EVTS*	*DOCUMENT ID*		*TECN*	*COMMENT*	
221±18 OUR AVERAGE						
255±26±51		[1] AAIJ	15X	LHCB	$B^0 \rightarrow \overline{D}^0 K^+ \pi^-$	
217±13±13		[2] AAIJ	15Y	LHCB	$B^0 \rightarrow \overline{D}^0 \pi^+ \pi^-$	
• • • We do not use the following data for averages, fits, limits, etc. • • •						
230±15±21		[3] AAIJ	15Y	LHCB	$B^0 \rightarrow \overline{D}^0 \pi^+ \pi^-$	OCCUR=2
283±24±34	18.8k	[4] LINK	04A	FOCS	γ A	

[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. NODE=M179W;LINKAGE=A
[2] Modeling the $\pi^+\pi^-$ S-wave with the Isobar formalism. NODE=M179W;LINKAGE=B
[3] Modeling the $\pi^+\pi^-$ S-wave with the K-matrix formalism. NODE=M179W;LINKAGE=C
[4] Possibly the feed-down from another state. NODE=M179W;LINKAGE=D

$D_0^*(2300)^{\pm}$ DECAY MODES

NODE=M179215;NODE=M179

	Mode	Fraction (Γ_i/Γ)	
Γ_1	$D^0\pi^+$	seen	DESIG=1;OUR EVAL;→ UNCHECKED ←

$D_0^*(2300)^{\pm}$ REFERENCES

NODE=M179

AAIJ	15X	PR D92 012012	R. Aaij *et al.*	(LHCb Collab.)	REFID=56588
AAIJ	15Y	PR D92 032002	R. Aaij *et al.*	(LHCb Collab.)	REFID=56609
LINK	04A	PL B586 11	J.M. Link *et al.*	(FOCUS Collab.)	REFID=49775