NODE=M178

$D_0^*(2300)^0$ $\quad I(J^P) = \frac{1}{2}(0^+)$

was $D_0^*(2400)^0$

$J^P = 0^+$ assignment favored (ABE 04D).

NODE=M178

$D_0^*(2300)^0$ MASS

NODE=M178M

VALUE (MeV)	EVTS	DOCUMENT ID		TECN	COMMENT
2300±19 OUR AVERAGE					
2297± 8±20	3.4k	AUBERT	09AB	BABR	$B^- \rightarrow D^+ \pi^- \pi^-$
2308±17±32		ABE	04D	BELL	$B^- \rightarrow D^+ \pi^- \pi^-$
• • • We do not use the following data for averages, fits, limits, etc. • • •					
2407±21±35	9.8k	[1] LINK	04A	FOCS	γ A

NODE=M178M

[1] Possibly the feed-down from another state.

NODE=M178M;LINKAGE=E

$D_0^*(2300)^0$ WIDTH

NODE=M178W

VALUE (MeV)	EVTS	DOCUMENT ID		TECN	COMMENT
274±40 OUR AVERAGE					
273±12±48	3.4k	AUBERT	09AB	BABR	$B^- \rightarrow D^+ \pi^- \pi^-$
276±21±63		ABE	04D	BELL	$B^- \rightarrow D^+ \pi^- \pi^-$
• • • We do not use the following data for averages, fits, limits, etc. • • •					
240±55±59	9.8k	[1] LINK	04A	FOCS	γ A

NODE=M178W

[1] Possibly the feed-down from another state.

NODE=M178W;LINKAGE=E

$D_0^*(2300)^0$ DECAY MODES

NODE=M178215;NODE=M178

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

DESIG=1;OUR EVAL;→ UNCHECKED ←

$D_0^*(2300)^0$ REFERENCES

NODE=M178

AUBERT	09AB	PR D79 112004	B. Aubert *et al.*	(BABAR Collab.)
ABE	04D	PR D69 112002	K. Abe *et al.*	(BELLE Collab.)
LINK	04A	PL B586 11	J.M. Link *et al.*	(FOCUS Collab.)

REFID=52941
REFID=50011
REFID=49775