

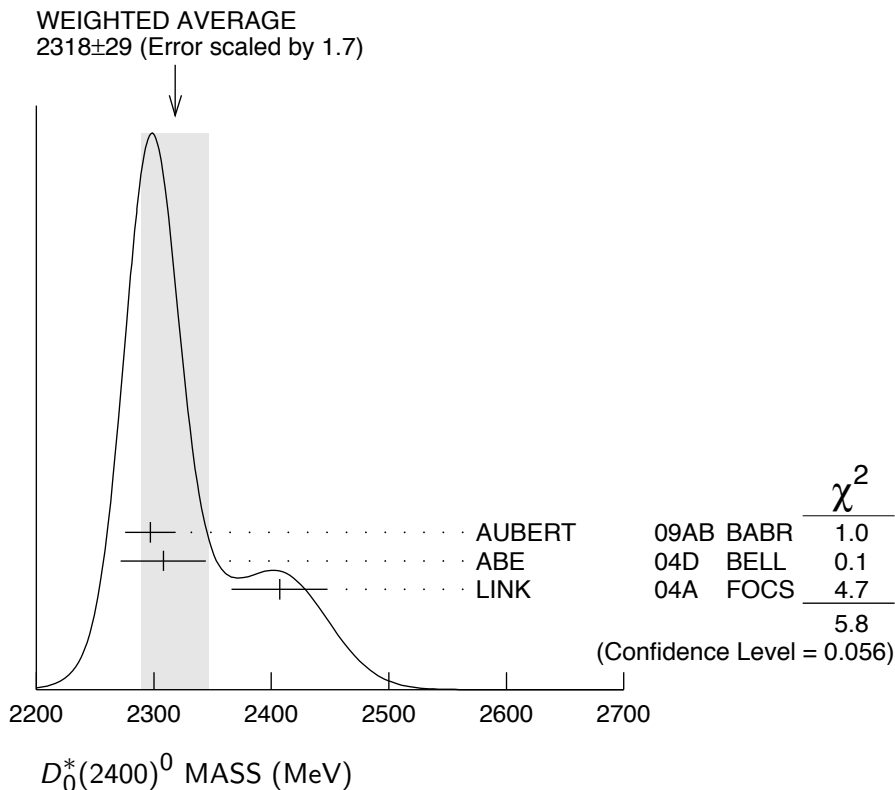
**$D_0^*(2400)^0$**

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

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

### $D_0^*(2400)^0$ MASS

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	COMMENT
<b>2318±29 OUR AVERAGE</b>				Error includes scale factor of 1.7. See the ideogram below.
2297 ± 8±20	3.4k	AUBERT	09AB BABR	$B^- \rightarrow D^+ \pi^- \pi^-$
2308 ± 17±32		ABE	04D BELL	$B^- \rightarrow D^+ \pi^- \pi^-$
2407 ± 21±35	9.8k	LINK	04A FOCS	$\gamma A$



### $D_0^*(2400)^0$ WIDTH

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	COMMENT
<b>267±40 OUR AVERAGE</b>				
273 ± 12±48	3.4k	AUBERT	09AB BABR	$B^- \rightarrow D^+ \pi^- \pi^-$
276 ± 21±63		ABE	04D BELL	$B^- \rightarrow D^+ \pi^- \pi^-$
240 ± 55±59	9.8k	LINK	04A FOCS	$\gamma A$

## $D_0^*(2400)^0$ DECAY MODES

Mode	Fraction ( $\Gamma_i/\Gamma$ )
$\Gamma_1 \quad D^+ \pi^-$	seen

## $D_0^*(2400)^0$ REFERENCES

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