

$D_1(2430)^0$

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

 $J^P = 1^+$ determined by AAIJ 20D. **$D_1(2430)^0$ MASS**

| VALUE (MeV) | EVTS | DOCUMENT ID | TECN | COMMENT |
|--|------|---------------------|-----------|---|
| 2412 ± 9 OUR AVERAGE | | | | |
| 2411 ± 3 ± 9 | 79k | ¹ AAIJ | 20D LHCb | $B^- \rightarrow D^{*+} \pi^- \pi^-$ |
| 2427 ± 26 ± 25 | | ABE | 04D BELLE | $B^- \rightarrow D^{*+} \pi^- \pi^-$ |
| • • • We do not use the following data for averages, fits, limits, etc. • • • | | | | |
| 2477 ± 28 | | ² AUBERT | 06L BABR | $\bar{B}^0 \rightarrow D^{*+} \omega \pi^-$ |
| ¹ From a full four-body amplitude analysis of the $B^- \rightarrow D^{*+} \pi^- \pi^-$ decay. | | | | |
| ² Systematic errors not estimated. | | | | |

 $D_1(2430)^0$ WIDTH

| VALUE (MeV) | EVTS | DOCUMENT ID | TECN | COMMENT |
|--|------|---------------------|-----------|---|
| 314 ± 29 OUR AVERAGE | | | | |
| 309 ± 9 ± 28 | 79k | ¹ AAIJ | 20D LHCb | $B^- \rightarrow D^{*+} \pi^- \pi^-$ |
| 384 $^{+107}_{-75}$ ± 74 | | ABE | 04D BELLE | $B^- \rightarrow D^{*+} \pi^- \pi^-$ |
| • • • We do not use the following data for averages, fits, limits, etc. • • • | | | | |
| 266 ± 97 | | ² AUBERT | 06L BABR | $\bar{B}^0 \rightarrow D^{*+} \omega \pi^-$ |
| ¹ From a full four-body amplitude analysis of the $B^- \rightarrow D^{*+} \pi^- \pi^-$ decay. | | | | |
| ² Systematic errors not estimated. | | | | |

 $D_1(2430)^0$ DECAY MODES

| Mode | Fraction (Γ_i/Γ) |
|--------------------------------|--------------------------------|
| Γ_1 $D^*(2010)^+ \pi^-$ | seen |

 $D_1(2430)^0$ REFERENCES

| | | | | |
|--------|-----|----------------|-------------------------|-------------------|
| AAIJ | 20D | PR D101 032005 | R. Aaij <i>et al.</i> | (LHCb Collab.) JP |
| AUBERT | 06L | PR D74 012001 | B. Aubert <i>et al.</i> | (BABAR Collab.) |
| ABE | 04D | PR D69 112002 | K. Abe <i>et al.</i> | (BELLE Collab.) |