# $a_1(1420)$

$I^G(J^{PC}) = 1^-(1^{++})$

OMITTED FROM SUMMARY TABLE

## $a_1(1420)$ MASS

| *VALUE* (MeV) | *EVTS* | *DOCUMENT ID* | | *TECN* | *COMMENT* |
|---|---|---|---|---|---|
| **$1411^{+\ 4}_{-\ 5}$** | 46M | [1] AGHASYAN | 18B | COMP | 190 $\pi^- p \to \pi^-\pi^+\pi^- p$ |
| • • • We do not use the following data for averages, fits, limits, etc. • • • | | | | | |
| $1414^{+15}_{-13}$ | | [2,3] ADOLPH | 15C | COMP | 190 $\pi^- p \to \pi^-\pi^+\pi^- p$ |

[1] Statistical error negligible.
[2] Using the isobar model and partial-wave analysis with 88 waves.
[3] Superseded by AGHASYAN 2018B.

## $a_1(1420)$ WIDTH

| *VALUE* (MeV) | *EVTS* | *DOCUMENT ID* | | *TECN* | *COMMENT* |
|---|---|---|---|---|---|
| **$161^{+11}_{-14}$** | 46M | [1] AGHASYAN | 18B | COMP | 190 $\pi^- p \to \pi^-\pi^+\pi^- p$ |
| • • • We do not use the following data for averages, fits, limits, etc. • • • | | | | | |
| $153^{+\ 8}_{-23}$ | | [2,3] ADOLPH | 15C | COMP | 190 $\pi^- p \to \pi^-\pi^+\pi^- p$ |

[1] Statistical error negligible.
[2] Using the isobar model and partial-wave analysis with 88 waves.
[3] Superseded by AGHASYAN 2018B.

## $a_1(1420)$ DECAY MODES

| | Mode | Fraction ($\Gamma_i/\Gamma$) |
|---|---|---|
| $\Gamma_1$ | $f_0(980)\pi$ | seen |

## $a_1(1420)$ BRANCHING RATIOS

**$\Gamma(f_0(980)\pi)/\Gamma_{\text{total}}$** **$\Gamma_1/\Gamma$**

| *VALUE* | *DOCUMENT ID* | | *TECN* | *COMMENT* |
|---|---|---|---|---|
| **seen** | [1] ADOLPH | 15C | COMP | 190 $\pi^- p \to \pi^-\pi^+\pi^- p$ |

[1] Using the isobar model and partial-wave analysis with 88 waves.

## $a_1(1420)$ REFERENCES


| | | | | |
|---|---|---|---|---|
| AGHASYAN | 18B | PR D98 092003 | M. Aghasyan *et al.* | (COMPASS Collab.) |
| ADOLPH | 15C | PRL 115 082001 | C. Adolph *et al.* | (COMPASS Collab.) |