

$a_1(1420)$

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

OMITTED FROM SUMMARY TABLE

 $a_1(1420)$ MASS

<u>VALUE (MeV)</u>	<u>EVTS</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
1411^{+4}_{-5}	46M	¹ AGHASYAN	18B COMP	190 $\pi^- p \rightarrow \pi^- \pi^+ \pi^- p$
1414^{+15}_{-13}		^{2,3} ADOLPH	15C COMP	190 $\pi^- p \rightarrow \pi^- \pi^+ \pi^- p$

• • • We do not use the following data for averages, fits, limits, etc. • • •

¹ Statistical error negligible.² Using the isobar model and partial-wave analysis with 88 waves.³ Superseded by AGHASYAN 2018B.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

<u>VALUE (MeV)</u>	<u>EVTS</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
161^{+11}_{-14}	46M	¹ AGHASYAN	18B COMP	190 $\pi^- p \rightarrow \pi^- \pi^+ \pi^- p$
153^{+8}_{-23}		^{2,3} ADOLPH	15C COMP	190 $\pi^- p \rightarrow \pi^- \pi^+ \pi^- p$

• • • We do not use the following data for averages, fits, limits, etc. • • •

¹ Statistical error negligible.² Using the isobar model and partial-wave analysis with 88 waves.³ Superseded by AGHASYAN 2018B.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 (Γ_j/Γ)
Γ_1 $f_0(980)\pi$	seen

 $a_1(1420)$ BRANCHING RATIOS

<u>$\Gamma(f_0(980)\pi)/\Gamma_{\text{total}}$</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>	Γ_1/Γ
seen	¹ ADOLPH	15C COMP	190 $\pi^- p \rightarrow \pi^- \pi^+ \pi^- p$	

¹ Using the isobar model and partial-wave analysis with 88 waves. **$a_1(1420)$ REFERENCES**

AGHASYAN	18B	PR D98 092003	M. Aghasyan <i>et al.</i>	(COMPASS Collab.)
ADOLPH	15C	PRL 115 082001	C. Adolph <i>et al.</i>	(COMPASS Collab.)