

$\pi_1(1600)$

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

$\pi_1(1600)$ MASS

<u>VALUE (MeV)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
1596⁺²⁵₋₁₄ OUR AVERAGE			
1597 ± 10 ⁺⁴⁵ ₋₁₀	IVANOV	01 MPS	18 $\pi^- p \rightarrow \eta' \pi^- p$
1593 ± 8 ⁺²⁹ ₋₄₇	¹ ADAMS	98B MPS	18.3 $\pi^- p \rightarrow \pi^+ \pi^- \pi^- p$

¹ Natural parity exchange.

$\pi_1(1600)$ WIDTH

<u>VALUE (MeV)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
312⁺⁶⁴₋₂₄ OUR AVERAGE Error includes scale factor of 1.1.			
340 ± 40 ± 50	IVANOV	01 MPS	18 $\pi^- p \rightarrow \eta' \pi^- p$
168 ± 20 ⁺¹⁵⁰ ₋₁₂	² ADAMS	98B MPS	18.3 $\pi^- p \rightarrow \pi^+ \pi^- \pi^- p$

² Natural parity exchange.

$\pi_1(1600)$ DECAY MODES

Mode	Fraction (Γ_i/Γ)
Γ_1 $\pi \pi \pi$	seen
Γ_2 $\rho^0 \pi^-$	seen
Γ_3 $f_2(1270) \pi^-$	not seen
Γ_4 $b_1(1235) \pi$	
Γ_5 $\eta'(958) \pi^-$	seen

$\pi_1(1600)$ BRANCHING RATIOS

$\Gamma(\rho^0 \pi^-)/\Gamma_{\text{total}}$	Γ_2/Γ
<u>VALUE</u>	<u>DOCUMENT ID</u> <u>TECN</u> <u>COMMENT</u>
● ● ● We do not use the following data for averages, fits, limits, etc. ● ● ●	
seen	³ ADAMS 98B MPS 18.3 $\pi^- p \rightarrow \pi^+ \pi^- \pi^- p$

$\Gamma(\eta'(958) \pi^-)/\Gamma_{\text{total}}$	Γ_5/Γ
<u>VALUE</u>	<u>DOCUMENT ID</u> <u>TECN</u> <u>COMMENT</u>
● ● ● We do not use the following data for averages, fits, limits, etc. ● ● ●	
seen	IVANOV 01 MPS 18 $\pi^- p \rightarrow \eta' \pi^- p$

$\Gamma(f_2(1270)\pi^-)/\Gamma_{\text{total}}$ Γ_3/Γ

VALUE DOCUMENT ID TECN COMMENT

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

not seen CHUNG 02 MPS $18.3 \pi^- p \rightarrow \pi^+ \pi^- \pi^- p$

$\Gamma(b_1(1235)\pi)/\Gamma_{\text{total}}$ Γ_4/Γ

VALUE EVTS DOCUMENT ID TECN COMMENT

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

seen 35280 ⁴BAKER 03 SPEC $\bar{p}p \rightarrow \omega \pi^+ \pi^- \pi^0$

³Natural parity exchange.

⁴ $B((b_1\pi)_{D\text{-wave}})/B((b_1\pi)_{S\text{-wave}})=0.3 \pm 0.1.$

$\pi_1(1600)$ REFERENCES

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IVANOV	01	PRL 86 3977	E.I. Ivanov <i>et al.</i>
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