$\pi_1(1600)$

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

$\pi_1(1600)$ MASS

VALUE (MeV)	DOCUMENT ID		TECN	COMMENT
1596^{+25}_{-14} OUR AVERAGE				
$1597 \pm 10^{+45}_{-10}$	IVANOV	01	MPS	$18\ \pi^- p \to \eta' \pi^- p$
$1593 \pm 8^{+29}_{-47}$	[1] ADAMS	98B	MPS	$18.3\ \pi^- p \to \pi^+ \pi^- \pi^- p$

[1] Natural parity exchange.

$\pi_1(1600)$ WIDTH

VALUE (MeV)	DOCUMENT ID		TECN	COMMENT
312^{+64}_{-24} OUR AVERAGE Error includes scale factor of 1.1.				
$340 \pm 40 \pm 50$	IVANOV	01	MPS	$18\ \pi^- p \to \eta' \pi^- p$
$168 \pm 20^{+150}_{-12}$	[2] ADAMS	98B	MPS	$18.3\ \pi^- p \to \pi^+ \pi^- \pi^- p$

[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

$\Gamma(\rho^0 \pi^-)/\Gamma_{total}$ Γ_2/Γ

VALUE	DOCUMENT ID		TECN	COMMENT
• • • We do not use the following data for averages, fits, limits, etc. • • •				
seen	[3] ADAMS	98B	MPS	$18.3\ \pi^- p \to \pi^+ \pi^- \pi^- p$

$\Gamma(\eta'(958)\pi^-)/\Gamma_{total}$ Γ_5/Γ

VALUE	DOCUMENT ID		TECN	COMMENT
• • • We do not use the following data for averages, fits, limits, etc. • • •				
seen	IVANOV	01	MPS	$18\ \pi^- p \to \eta' \pi^- p$

$\Gamma(f_2(1270)\pi^-)/\Gamma_{total}$ 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 $\pi^- p \to \pi^+ \pi^- \pi^- p$

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

VALUE	EVTS	DOCUMENT ID		TECN	COMMENT
• • • We do not use the following data for averages, fits, limits, etc. • • •					
seen	35280	[4] BAKER	03	SPEC	$\overline{p} p \to \omega \pi^+ \pi^- \pi^0$

[3] Natural parity exchange.

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

$\pi_1(1600)$ REFERENCES

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