$\pi_2(2100)$

$$I^{G}(J^{PC}) = 1^{-}(2^{-+})$$

OMITTED FROM SUMMARY TABLE

Needs confirmation.

$\pi_2(2100)$ MASS

VALUE (MeV)	DOCUMENT ID		TECN	COMMENT	
2090± 29 OUR AVERAGE					
2090± 30	$^{ m 1}$ AMELIN	95 B	VES	36 $\pi^{\pi^+\pi^-\pi^-}A \rightarrow A$	
2100 ± 150	² DAUM			$63,94 \pi^{-} p \rightarrow 3\pi X$	
1 From a fit to $J^{PC}=2^{-}+\ \emph{f}_{2}(1270)\pi$, $(\pi\pi)_{S}\pi$ waves.					
2 From a two-resonance fit to four 2^-0^+ waves.					

π_2 (2100) WIDTH

VALUE (MeV)	DOCUMENT ID		TECN	COMMENT		
625 ± 50 OUR AVERAGE Error includes scale factor of 1.2.						
520 ± 100	³ AMELIN	95 B	VES	$36 \begin{array}{c} \pi^- A \rightarrow \\ \pi^+ \pi^- \pi^- A \end{array}$		
651± 50	⁴ DAUM	81 B	CNTR	$\pi^+\pi^-\pi^-A$ 63,94 $\pi^-p \rightarrow 3\pi X$		
3 From a fit to $J^{PC}=2^{-+}f_2(1270)\pi$, $(\pi\pi)_{\cal S}\pi$ waves.						
4 From a two-resonance fit to four 2^-0^+ waves.						

$\pi_2(2100)$ DECAY MODES

	Mode	Fraction (Γ_i/Γ)
Γ ₁	3π	seen
Γ_2	$ ho\pi$	seen
Γ ₃	$f_2(1270)\pi$	seen
Γ_4	$(\pi\pi)_s\pi$	seen

π_2 (2100) BRANCHING RATIOS

$\Gamma(\rho\pi)/\Gamma(3\pi)$					Γ_2/Γ_1
VALUE	DOCUMENT ID		TECN	COMMENT	
0.19 ± 0.05	⁵ DAUM	81 B	CNTR	63,94 $\pi^- p$	
$\Gamma(f_2(1270)\pi)/\Gamma(3\pi)$					Γ_3/Γ_1
VALUE	DOCUMENT ID		TECN	COMMENT	
0.36 ± 0.09	⁵ DAUM	81 B	CNTR	63,94 $\pi^- p$	
$\Gamma((\pi\pi)_s\pi)/\Gamma(3\pi)$					Γ_4/Γ_1
VALUE	DOCUMENT ID		TECN	COMMENT	
0.45 ± 0.07	⁵ DAUM	81 B	CNTR	63,94 $\pi^- p$	

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D-wave/*S*-wave RATIO FOR $\pi_2(2100) \rightarrow f_2(1270)\pi$

VALUEDOCUMENT IDTECNCOMMENT0.39 \pm 0.235 DAUM81BCNTR63,94 $\pi^- p$

 5 From a two-resonance fit to four $2^{-}0^{+}$ waves.

 $\pi_2(2100)$ REFERENCES

AMELIN 95B PL B356 595 D.V. Amelin *et al.* (SERP, TBIL) DAUM 81B NP B182 269 C. Daum *et al.* (AMST, CERN, CRAC, MPIM+)

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