

$\pi_2(2100)$

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

OMMITTED FROM SUMMARY TABLE

Needs confirmation.

$\pi_2(2100)$ MASS

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
2090± 29 OUR AVERAGE			
2090± 30	1 AMELIN	95B VES	36 $\pi^- A \rightarrow \pi^+ \pi^- \pi^- A$
2100±150	2 DAUM	81B CNTR	63,94 $\pi^- p \rightarrow 3\pi X$

¹ From a fit to $J^{PC} = 2^-+$ $f_2(1270)\pi$, $(\pi\pi)_s\pi$ waves.
² From a two-resonance fit to four 2^-0^+ waves.

$\pi_2(2100)$ WIDTH

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
625± 50 OUR AVERAGE Error includes scale factor of 1.2.			
520±100	3 AMELIN	95B VES	36 $\pi^- A \rightarrow \pi^+ \pi^- \pi^- A$
651± 50	4 DAUM	81B CNTR	63,94 $\pi^- p \rightarrow 3\pi X$

³ From a fit to $J^{PC} = 2^-+$ $f_2(1270)\pi$, $(\pi\pi)_s\pi$ 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 $\rho\pi$	seen
Γ_3 $f_2(1270)\pi$	seen
Γ_4 $(\pi\pi)_s\pi$	seen

$\pi_2(2100)$ BRANCHING RATIOS

$\Gamma(\rho\pi)/\Gamma(3\pi)$

VALUE	DOCUMENT ID	TECN	COMMENT
0.19±0.05	5 DAUM	81B CNTR	63,94 $\pi^- p$

Γ_2/Γ_1

VALUE	DOCUMENT ID	TECN	COMMENT
0.36±0.09	5 DAUM	81B CNTR	63,94 $\pi^- p$

Γ_3/Γ_1

VALUE	DOCUMENT ID	TECN	COMMENT
0.45±0.07	5 DAUM	81B CNTR	63,94 $\pi^- p$

Γ_4/Γ_1

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

VALUE	DOCUMENT ID	TECN	COMMENT
0.39±0.23	⁵ DAUM	81B CNTR	63,94 $\pi^- p$

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

$\pi_2(2100)$ REFERENCES

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