

$\pi_2(2100)$ 

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

OMITTED FROM SUMMARY TABLE

Needs confirmation.

 $\pi_2(2100)$  MASS

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

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

 $\pi_2(2100)$  WIDTH

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

<sup>3</sup> From a fit to  $J^{PC} = 2^-+ f_2(1270)\pi, (\pi\pi)_S\pi$  waves.  
<sup>4</sup> From a two-resonance fit to four  $2^-0^+$  waves.

 $\pi_2(2100)$  DECAY MODES

Mode	Fraction ( $\Gamma_i/\Gamma$ )
$\Gamma_1$ $3\pi$	seen
$\Gamma_2$ $\rho\pi$	seen
$\Gamma_3$ $f_2(1270)\pi$	seen
$\Gamma_4$ $(\pi\pi)_S\pi$	seen

 $\pi_2(2100)$  BRANCHING RATIOS

$\Gamma(\rho\pi)/\Gamma(3\pi)$		$\Gamma_2/\Gamma_1$	
VALUE	DOCUMENT ID	TECN	COMMENT
<b>0.19 ± 0.05</b>	<sup>5</sup> DAUM	81B CNTR	63,94 $\pi^- p$
$\Gamma(f_2(1270)\pi)/\Gamma(3\pi)$		$\Gamma_3/\Gamma_1$	
VALUE	DOCUMENT ID	TECN	COMMENT
<b>0.36 ± 0.09</b>	<sup>5</sup> DAUM	81B CNTR	63,94 $\pi^- p$
$\Gamma((\pi\pi)_S\pi)/\Gamma(3\pi)$		$\Gamma_4/\Gamma_1$	
VALUE	DOCUMENT ID	TECN	COMMENT
<b>0.45 ± 0.07</b>	<sup>5</sup> DAUM	81B CNTR	63,94 $\pi^- p$

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

<i>VALUE</i>	<i>DOCUMENT ID</i>	<i>TECN</i>	<i>COMMENT</i>
<b><math>0.39 \pm 0.23</math></b>	<sup>5</sup> DAUM	81B	CNTR 63,94 $\pi^- p$

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

**$\pi_2(2100)$  REFERENCES**

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