

# h<sub>1</sub>(1415)

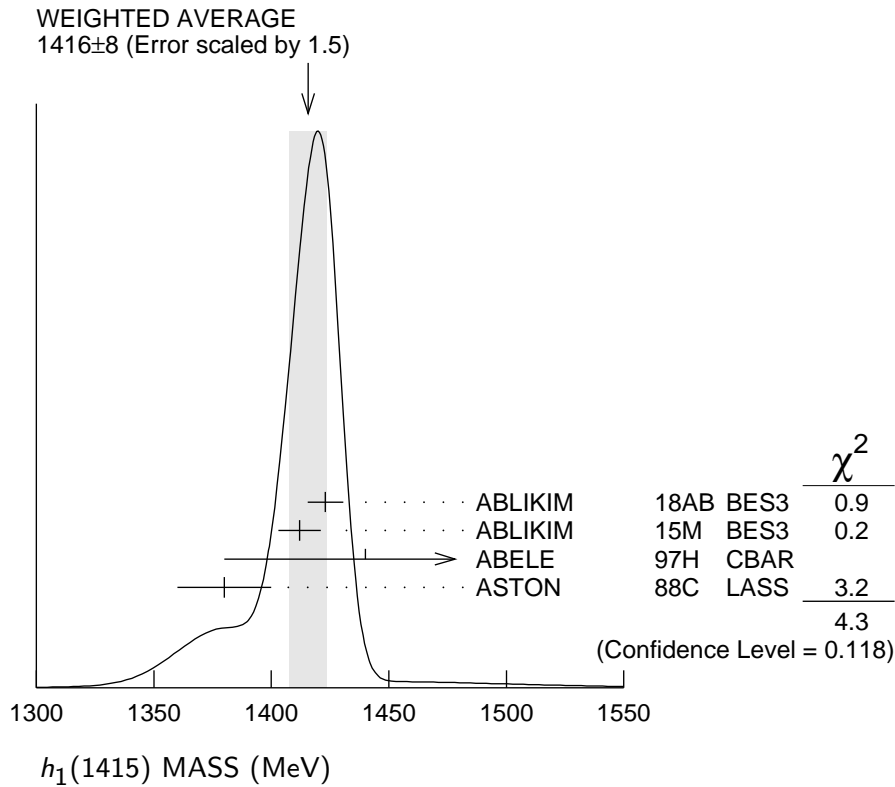
$$I^G(J^{PC}) = 0^-(1^{+-})$$

was h<sub>1</sub>(1380)

## h<sub>1</sub>(1415) MASS

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	COMMENT
<b>1416 ± 8</b>	<b>OUR AVERAGE</b>	Error includes scale factor of 1.5. See the ideogram below.		
1423 ± 2.1 ± 7.3	2.2k	<sup>1</sup> ABLIKIM	18AB BES3	J/ψ → η' h <sub>1</sub> → η' K* K̄
1412 ± 4 ± 8		<sup>1</sup> ABLIKIM	15M BES3	ψ(2S) → γχ <sub>c1,2</sub> → γφ(h <sub>1</sub> → K* K̄)
1440 ± 60		ABELE	97H CBAR	p̄p → K <sub>L</sub> <sup>0</sup> K <sub>S</sub> <sup>0</sup> π <sup>0</sup> π <sup>0</sup>
1380 ± 20		ASTON	88C LASS	11 K <sup>-</sup> p → K <sub>S</sub> <sup>0</sup> K <sup>±</sup> π <sup>∓</sup> Λ

<sup>1</sup> Final states K<sup>+</sup> K<sup>-</sup> π<sup>0</sup> and K<sub>S</sub><sup>0</sup> K<sup>±</sup> π<sup>∓</sup>.



## h<sub>1</sub>(1415) WIDTH

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	COMMENT
<b>90 ± 15</b>	<b>OUR AVERAGE</b>			
90.3 ± 9.8 ± 17.5	2.2k	<sup>1</sup> ABLIKIM	18AB BES3	J/ψ → η' h <sub>1</sub> → η' K* K̄
84 ± 12 ± 40		<sup>1</sup> ABLIKIM	15M BES3	ψ(2S) → γχ <sub>c1,2</sub> → γφ(h <sub>1</sub> → K* K̄)
170 ± 80		ABELE	97H CBAR	p̄p → K <sub>L</sub> <sup>0</sup> K <sub>S</sub> <sup>0</sup> π <sup>0</sup> π <sup>0</sup>
80 ± 30		ASTON	88C LASS	11 K <sup>-</sup> p → K <sub>S</sub> <sup>0</sup> K <sup>±</sup> π <sup>∓</sup> Λ

<sup>1</sup>Final states  $K^+ K^- \pi^0$  and  $K_S^0 K^\pm \pi^\mp$ .

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## $h_1(1415)$ DECAY MODES

Mode

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$\Gamma_1$   $K \bar{K}^*(892) + \text{c.c.}$

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## $h_1(1415)$ REFERENCES

ABLIKIM	18AB PR D98 072005	M. Ablikim <i>et al.</i>	(BES III Collab.)
ABLIKIM	15M PR D91 112008	M. Ablikim <i>et al.</i>	(BES III Collab.)
ABELE	97H PL B415 280	A. Abele <i>et al.</i>	(Crystal Barrel Collab.)
ASTON	88C PL B201 573	D. Aston <i>et al.</i>	(SLAC, NAGO, CINC, INUS)

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