

$\psi(4415)$

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

$\psi(4415)$ MASS

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
4415 ± 6 OUR AVERAGE			
4417 ± 10	BRANDELIK	78C DASP	e^+e^-
4414 ± 7	SIEGRIST	76 MRK1	e^+e^-

$\psi(4415)$ WIDTH

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
43 ± 15 OUR AVERAGE Error includes scale factor of 1.8.			
66 ± 15	BRANDELIK	78C DASP	e^+e^-
33 ± 10	SIEGRIST	76 MRK1	e^+e^-

$\psi(4415)$ DECAY MODES

Mode	Fraction (Γ_i/Γ)
Γ_1 hadrons	dominant
Γ_2 e^+e^-	$(1.1 \pm 0.4) \times 10^{-5}$

$\psi(4415)$ PARTIAL WIDTHS

$\Gamma(e^+e^-)$	DOCUMENT ID	TECN	COMMENT	Γ_2
0.47 ± 0.10 OUR AVERAGE				
0.49 ± 0.13	BRANDELIK	78C DASP	e^+e^-	
0.44 ± 0.14	SIEGRIST	76 MRK1	e^+e^-	

$\psi(4415)$ BRANCHING RATIOS

$\Gamma(\text{hadrons})/\Gamma_{\text{total}}$	DOCUMENT ID	TECN	COMMENT	Γ_1/Γ
dominant				
	SIEGRIST	76 MRK1	e^+e^-	

$\psi(4415)$ REFERENCES

BRANDELIK	78C	PL 76B 361	R. Brandelik <i>et al.</i>	(DASP Collab.)
SIEGRIST	76	PRL 36 700	J.L. Siegrist <i>et al.</i>	(LBL, SLAC)

OTHER RELATED PAPERS

BURMESTER	77	PL 66B 395	J. Burmester <i>et al.</i>	(DESY, HAMB, SIEG+)
LUTH	77	PL 70B 120	V. Luth <i>et al.</i>	(LBL, SLAC)