

$\phi(2170)$

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

OMITTED FROM SUMMARY TABLE

Observed by AUBERT, BE 06D in the initial-state radiation process

$$e^+ e^- \rightarrow \phi f_0(980) \gamma.$$

$\psi(2170)$ MASS

<u>VALUE (MeV)</u>	<u>EVTS</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
2175 ± 10 ± 15	201	AUBERT, BE 06D	BABR	10.6 $e^+ e^- \rightarrow K^+ K^- \pi \pi \gamma$

$\psi(2170)$ WIDTH

<u>VALUE (MeV)</u>	<u>EVTS</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
58 ± 16 ± 20	201	AUBERT, BE 06D	BABR	10.6 $e^+ e^- \rightarrow K^+ K^- \pi \pi \gamma$

$\phi(2170)$ DECAY MODES

Mode	Fraction (Γ_i/Γ)
Γ_1 $e^+ e^-$	seen
Γ_2 $\phi f_0(980)$	seen
Γ_3 $K^+ K^- \pi^+ \pi^-$	
Γ_4 $K^+ K^- \pi^0 \pi^0$	

$\psi(2170)$ $\Gamma(i)\Gamma(e^+ e^-)/\Gamma(\text{total})$

$\Gamma(\phi f_0(980)) \times \Gamma(e^+ e^-)/\Gamma_{\text{total}}$				$\Gamma_2 \Gamma_1/\Gamma$
<u>VALUE (eV)</u>	<u>EVTS</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
2.5 ± 0.8 ± 0.4	201	AUBERT, BE 06D	BABR	10.6 $e^+ e^- \rightarrow K^+ K^- \pi \pi \gamma$

$\phi(2170)$ REFERENCES

AUBERT, BE 06D PR D74 091103R B. Aubert *et al.* (BABAR Collab.)