$X(2370)$

$I^G(J^{PC}) = ?^?(?^{??})$

OMITTED FROM SUMMARY TABLE

$X(2370)$ MASS

VALUE (MeV)	*EVTS*	*DOCUMENT ID*		*TECN*	*COMMENT*
2357 ±17 OUR AVERAGE		Error includes scale factor of 2.7.			
2341.6± 6.5±5.7		[1] ABLIKIM	20Q	BES3	$J/\psi \to \gamma K\overline{K}\eta'$
$2376.3\pm 8.7^{+3.2}_{-4.3}$	565	ABLIKIM	11C	BES3	$J/\psi \to \gamma\pi^+\pi^-\eta'$

[1] The state observed by ABLIKIM 11C at 2120 MeV is not observed with 90% CL upper limit of 1.49×10^{-5} for $J/\psi \to \gamma X(2120) \to \gamma K^+K^-\eta'$ and 6.38×10^{-6} for $K^0_S K^0_S \eta'$.

$X(2370)$ WIDTH

VALUE (MeV)	*DOCUMENT ID*		*TECN*	*COMMENT*
$\mathbf{114^{+12}_{-10}}$ **OUR AVERAGE**				
117±10± 8	[1] ABLIKIM	20Q	BES3	$J/\psi \to \gamma K\overline{K}\eta'$
$83\pm17^{+44}_{-\ 6}$	ABLIKIM	11C	BES3	$J/\psi \to \gamma\pi^+\pi^-\eta'$

[1] The state observed by ABLIKIM 11C at 2120 MeV is not observed with 90% CL upper limit of 1.49×10^{-5} for $J/\psi \to \gamma X(2120) \to \gamma K^+K^-\eta'$ and 6.38×10^{-6} for $K^0_S K^0_S \eta'$.

$X(2370)$ DECAY MODES

	Mode	Fraction (Γ_i/Γ)
Γ_1	$K^+K^-\eta'$	seen
Γ_2	$K^0_S K^0_S \eta'$	seen
Γ_3	$\pi^+\pi^-\eta'$	seen
Γ_4	$\eta\eta\eta'$	not seen

$X(2370)$ BRANCHING RATIOS

$\Gamma(K^+K^-\eta')/\Gamma_{\text{total}}$ Γ_1/Γ

VALUE	*DOCUMENT ID*		*TECN*	*COMMENT*
seen	ABLIKIM	20Q	BES3	$J/\psi \to \gamma K^+K^-\eta'$

$\Gamma(K^0_S K^0_S \eta')/\Gamma_{\text{total}}$ Γ_2/Γ

VALUE	*DOCUMENT ID*		*TECN*	*COMMENT*
seen	ABLIKIM	20Q	BES3	$J/\psi \to \gamma K^0_S K^0_S \eta'$

$\Gamma(\pi^+\pi^-\eta')/\Gamma_{\text{total}}$ Γ_3/Γ

VALUE	DOCUMENT ID		TECN	COMMENT
seen	ABLIKIM	11C	BES3	$J/\psi \to \gamma\pi^+\pi^-\eta'$

$\Gamma(\eta\eta\eta')/\Gamma_{\text{total}}$ Γ_4/Γ

VALUE	DOCUMENT ID		TECN	COMMENT
not seen	[1] ABLIKIM	21C	BES3	$J/\psi(1S) \to \gamma\eta\eta\eta'$

[1] ABLIKIM 21C measured $B(J/\psi(1S) \to \gamma X(2370) \to \gamma\eta\eta\eta') < 9.2 \times 10^{-6}$.

X(2370) REFERENCES

ABLIKIM	21C	PR D103 012009	M. Ablikim *et al.*	(BESIII Collab.)
ABLIKIM	20Q	EPJ C80 746	M. Ablikim *et al.*	(BESIII Collab.)
ABLIKIM	11C	PRL 106 072002	M. Ablikim *et al.*	(BESIII Collab.)