$X(4240)^{\pm}$

$I^G(J^P) = ?^?(0^-)$

OMITTED FROM SUMMARY TABLE

Spin and parity assigment $J^P = 0^-$ is favored over 1^-, 2^-, and 2^+ by 8 σ and over 1^+ by 1 σ, according to the four-dimensional amplitude analysis of AAIJ 14AG.

$X(4240)^{\pm}$ MASS

VALUE (MeV)	DOCUMENT ID		TECN	COMMENT
$4239 \pm 18 ^{+45}_{-10}$	[1] AAIJ	14AG	LHCB	$B^0 \to K^+ \pi^- \psi(2S)$

[1] From a 4–dimensional analysis when a second, lower mass resonance is allowed in the $X(4430)^{\pm}$ fit, with significance 6 σ including systematic variations.

$X(4240)^{\pm}$ WIDTH

VALUE (MeV)	DOCUMENT ID		TECN	COMMENT
$220 \pm 47 ^{+108}_{-74}$	[2] AAIJ	14AG	LHCB	$B^0 \to K^+ \pi^- \psi(2S)$

[2] From a 4–dimensional analysis when a second, lower mass resonance is allowed in the $X(4430)^{\pm}$ fit, with significance 6 σ including systematic variations.

$X(4240)^{\pm}$ DECAY MODES

	Mode	Fraction (Γ_i/Γ)
Γ_1	$\pi^- \psi(2S)$	seen

$X(4240)^{\pm}$ BRANCHING RATIOS

$\Gamma\big(\pi^- \psi(2S)\big)/\Gamma_{\text{total}}$ $\hfill \Gamma_1/\Gamma$

VALUE	DOCUMENT ID		TECN	COMMENT
seen	[3] AAIJ	14AG	LHCB	$B^0 \to K^+ \pi^- \psi(2S)$

[3] From a 4–dimensional analysis when a second, lower mass resonance is allowed in the $X(4430)^{\pm}$ fit. No partial branching fraction quoted.

$X(4240)^{\pm}$ REFERENCES

AAIJ	14AG	PRL 112 222002	R. Aaij *et al.*	(LHCb Collab.)