$X(4240)^{\pm}$

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

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

$\Gamma(\pi^-\psi(2S))/\Gamma_{total}$ **Γ_1/Γ**

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.)