$B_{s1}(5830)^0$

$I(J^P) = 0(1^+)$ Status: ***
I, J, P need confirmation.

Quantum numbers shown are quark-model predictions.

$B_{s1}(5830)^0$ MASS

VALUE (MeV)	*DOCUMENT ID*		*TECN*	*COMMENT*
5828.7 ±0.4 OUR AVERAGE	Error includes scale factor of 1.2.			
5828.40±0.04±0.41	[1] AAIJ	13O	LHCB	pp at 7 TeV
5829.4 ±0.7	[2] AALTONEN	08K	CDF	$p\overline{p}$ at 1.96 TeV

[1] Uses $B_{s1}(5830)^0 \to B^{*+}K^-$ decay.
[2] Uses two-body decays into K^- and B^+ mesons reconstructed as $B^+ \to J/\psi K^+$, $J/\psi \to \mu^+\mu^-$ or $B^+ \to \overline{D}^0\pi^+$, $\overline{D}^0 \to K^+\pi^-$.

$m_{B^0_{s1}} - m_{B^{*+}}$

VALUE (MeV)	*DOCUMENT ID*		*TECN*	*COMMENT*
504.41±0.21±0.14	[3] AALTONEN	08K	CDF	$p\overline{p}$ at 1.96 TeV

[3] Uses two-body decays into K^- and B^+ mesons reconstructed as $B^+ \to J/\psi K^+$, $J/\psi \to \mu^+\mu^-$ or $B^+ \to \overline{D}^0\pi^+$, $\overline{D}^0 \to K^+\pi^-$.

$B_{s1}(5830)^0$ DECAY MODES

	Mode	Fraction (Γ_i/Γ)
Γ_1	$B^{*+}K^-$	dominant

$B_{s1}(5830)^0$ BRANCHING RATIOS

$\Gamma(B^{*+}K^-)/\Gamma_{total}$ Γ_1/Γ

VALUE	*DOCUMENT ID*		*TECN*	*COMMENT*
dominant	AALTONEN	08K	CDF	$p\overline{p}$ at 1.96 TeV

$B_{s1}(5830)^0$ REFERENCES

AAIJ	13O	PRL 110 151803	R. Aaij *et al.*	(LHCb Collab.)
AALTONEN	08K	PRL 100 082001	T. Aaltonen *et al.*	(CDF Collab.)