NODE=M250

$X_0(2900)$

$I(J^P) = ?(0^+)$

OMITTED FROM SUMMARY TABLE

An exotic state with minimal quark content $\bar{c}d\bar{s}u$. Observed by AAIJ 20AI using full amplitude analysis of $B^+ \to D^+D^-K^+$ decays.

NODE=M250

$X_0(2900)$ MASS

NODE=M250M

VALUE (MeV)	EVTS	DOCUMENT ID		TECN	COMMENT
2866±7±2	1.2k	[1] AAIJ	20AI	LHCB	$B^+ \to D^+D^-K^+$

NODE=M250M

NODE=M250M;LINKAGE=A

[1] Obtained from the full amplitude analysis. Parameterized with the relativistic Breit-Wigner line shape. Also confirmed by the model-independent analysis of AAIJ 20AF.

$X_0(2900)$ WIDTH

NODE=M250W

VALUE (MeV)	EVTS	DOCUMENT ID		TECN	COMMENT
57±12±4	1.2k	[1] AAIJ	20AI	LHCB	$B^+ \to D^+D^-K^+$

NODE=M250W

NODE=M250W;LINKAGE=A

[1] Obtained from the full amplitude analysis. Parameterized with the relativistic Breit-Wigner line shape. Also confirmed by the model-independent analysis of AAIJ 20AF.

$X_0(2900)$ DECAY MODES

NODE=M250215;NODE=M250

	Mode	Fraction (Γ_i/Γ)
Γ_1	D^-K^+	seen

DESIG=1

$X_0(2900)$ BRANCHING RATIOS

NODE=M250225

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

NODE=M250R01

VALUE	DOCUMENT ID		TECN	COMMENT
seen	AAIJ	20AI	LHCB	$B^+ \to D^+D^-K^+$

NODE=M250R01

$X_0(2900)$ REFERENCES

NODE=M250

AAIJ	20AF	PRL 125 242001	R. Aaij *et al.*	(LHCb Collab.)
AAIJ	20AI	PR D102 112003	R. Aaij *et al.*	(LHCb Collab.)

REFID=60702
REFID=60739