

$X_1(2900)$

$$I(J^P) = ?(1^-)$$

NODE=M251

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 $B^+ \rightarrow D^+ D^- K^+$ decays.

NODE=M251

 $X_1(2900)$ MASS

NODE=M251M

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	COMMENT
$2904 \pm 5 \pm 1$	1.2k	¹ AAIJ	20AI LHCB	$B^+ \rightarrow D^+ D^- K^+$

NODE=M251M

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

NODE=M251M;LINKAGE=B

 $X_1(2900)$ WIDTH

NODE=M251W

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	COMMENT
$110 \pm 11 \pm 4$	1.2k	¹ AAIJ	20AI LHCB	$B^+ \rightarrow D^+ D^- K^+$

NODE=M251W

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

NODE=M251W;LINKAGE=A

 $X_1(2900)$ DECAY MODES

NODE=M251215;NODE=M251

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

DESIG=1

 $X_1(2900)$ BRANCHING RATIOS

NODE=M251225

$\Gamma(D^- K^+)/\Gamma_{\text{total}}$	VALUE	DOCUMENT ID	TECN	COMMENT	Γ_1/Γ
seen		AAIJ	20AI LHCB	$B^+ \rightarrow D^+ D^- K^+$	

NODE=M251R01
NODE=M251R01 **$X_1(2900)$ REFERENCES**

NODE=M251

AAIJ	20AF PRL 125 242001	R. Aaij <i>et al.</i>	(LHCb Collab.)
AAIJ	20AI PR D102 112003	R. Aaij <i>et al.</i>	(LHCb Collab.)

REFID=60702
REFID=60739