

$X_0(2900)$

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

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

 $X_0(2900)$ MASS

<u>VALUE (MeV)</u>	<u>EVTS</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
$2866 \pm 7 \pm 2$	1.2k	¹ AAIJ	20AI LHCB	$B^+ \rightarrow D^+ D^- K^+$

¹Obtained 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

<u>VALUE (MeV)</u>	<u>EVTS</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
$57 \pm 12 \pm 4$	1.2k	¹ AAIJ	20AI LHCB	$B^+ \rightarrow D^+ D^- K^+$

¹Obtained 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

<u>Mode</u>	<u>Fraction (Γ_i/Γ)</u>
$\Gamma_1 \quad D^- K^+$	seen

 $X_0(2900)$ BRANCHING RATIOS

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

 $X_0(2900)$ REFERENCES

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.)