

**$X_1(2900)$** 

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

## 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.

 **$X_1(2900)$  MASS**

<u>VALUE (MeV)</u>	<u>EVTS</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<b>2904±5±1</b>	1.2k	<sup>1</sup> AAIJ	20AI LHCB	$B^+ \rightarrow D^+ D^- K^+$

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

 **$X_1(2900)$  WIDTH**

<u>VALUE (MeV)</u>	<u>EVTS</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<b>110±11±4</b>	1.2k	<sup>1</sup> AAIJ	20AI LHCB	$B^+ \rightarrow D^+ D^- K^+$

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

 **$X_1(2900)$  DECAY MODES**

<u>Mode</u>	<u>Fraction (<math>\Gamma_i/\Gamma</math>)</u>
$\Gamma_1 \quad D^- K^+$	seen

 **$X_1(2900)$  BRANCHING RATIOS**

<u><math>\Gamma(D^- K^+)/\Gamma_{\text{total}}</math></u>	<u><math>\Gamma_1/\Gamma</math></u>		
<u>VALUE</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<b>seen</b>	AAIJ	20AI LHCB	$B^+ \rightarrow D^+ D^- K^+$

 **$X_1(2900)$  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.)