# $X_1(2900)$

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

OMITTED FROM SUMMARY TABLE

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

## $X_1(2900)$ MASS

| *VALUE* (MeV) | *EVTS* | *DOCUMENT ID* | | *TECN* | *COMMENT* |
|---|---|---|---|---|---|
| **2904±5±1** | 1.2k | [1] AAIJ | 20AI | LHCB | $B^+ \to D^+D^-K^+$ |

[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.

## $X_1(2900)$ WIDTH

| *VALUE* (MeV) | *EVTS* | *DOCUMENT ID* | | *TECN* | *COMMENT* |
|---|---|---|---|---|---|
| **110±11±4** | 1.2k | [1] AAIJ | 20AI | LHCB | $B^+ \to D^+D^-K^+$ |

[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.

## $X_1(2900)$ DECAY MODES

| | Mode | Fraction ($\Gamma_i/\Gamma$) |
|---|---|---|
| $\Gamma_1$ | $D^-K^+$ | seen |

## $X_1(2900)$ BRANCHING RATIOS

**$\Gamma(D^-K^+)/\Gamma_{total}$** **$\Gamma_1/\Gamma$**

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

## $X_1(2900)$ REFERENCES


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