

# $D_1^*(2760)^0$

$$I(J^P) = \frac{1}{2}(1^-)$$

OMITTED FROM SUMMARY TABLE

$J^P$  determined by AAIJ 15V from the Dalitz plot analysis of  $B^- \rightarrow D^+ K^- \pi^-$  decays.

## $D_1^*(2760)^0$ MASS

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	COMMENT
<b><math>2781 \pm 18 \pm 13</math></b>	2k	<sup>1</sup> AAIJ	15V LHCB	$B^- \rightarrow D^+ K^- \pi^-$

<sup>1</sup>From the amplitude analysis in the model describing the  $D^+ \pi^-$  wave together with virtual contributions from the  $D^*(2007)^0$  and  $B^{*0}$  states, nonresonant spin-0 and spin-1 components as well as the  $D_0^*(2400)^0$ ,  $D_2^*(2460)^0$  and  $D_1^*(2760)^0$  resonances.

## $D_1^*(2760)^0$ WIDTH

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	COMMENT
<b><math>177 \pm 32 \pm 21</math></b>	2k	<sup>1</sup> AAIJ	15V LHCB	$B^- \rightarrow D^+ K^- \pi^-$

<sup>1</sup>From the amplitude analysis in the model describing the  $D^+ \pi^-$  wave together with virtual contributions from the  $D^*(2007)^0$  and  $B^{*0}$  states, nonresonant spin-0 and spin-1 components as well as the  $D_0^*(2400)^0$ ,  $D_2^*(2460)^0$  and  $D_1^*(2760)^0$  resonances.

## $D_1^*(2760)^0$ DECAY MODES

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

## $D_1^*(2760)^0$ BRANCHING RATIOS

$\Gamma(D^+ K^-)/\Gamma_{\text{total}}$	$\Gamma_1/\Gamma$		
VALUE	DOCUMENT ID	TECN	COMMENT
<b>seen</b>	<sup>1</sup> AAIJ	15V LHCB	$B^- \rightarrow D^+ K^- \pi^-$

<sup>1</sup>From the amplitude analysis in the model describing the  $D^+ \pi^-$  wave together with virtual contributions from the  $D^*(2007)^0$  and  $B^{*0}$  states, nonresonant spin-0 and spin-1 components as well as the  $D_0^*(2400)^0$ ,  $D_2^*(2460)^0$  and  $D_1^*(2760)^0$  resonances.

## $D_1^*(2760)^0$ REFERENCES

AAIJ	15V	PR D91 092002	R. Aaij <i>et al.</i>	(LHCb Collab.) JP
Also		PR D93 119901 (errat.)	R. Aaij <i>et al.</i>	(LHCb Collab.)