

# $\Omega_b(6350)^-$

$I(J^P) = ?(?^?)$  Status: \*\*\*  
*I, J, P* need confirmation.

## $\Omega_b(6350)^-$ MASS

| VALUE (MeV)               | DOCUMENT ID       | TECN     | COMMENT                   |
|---------------------------|-------------------|----------|---------------------------|
| <b>6349.8 ± 0.4 ± 0.5</b> | <sup>1</sup> AAIJ | 20T LHCB | <i>pp</i> at 7, 8, 13 TeV |

<sup>1</sup> AAIJ 20T measures  $m(\Omega_b(6350)^-) - m(\Xi_b^0) = 557.98 \pm 0.35 \pm 0.05$  MeV. We have adjusted the measurement to our best values of  $m(\Xi_b^0) = 5791.9 \pm 0.5$  MeV. Our first error is their experiment's error and our second error is the systematic error from using our best values.

## $\Omega_b(6350)^-$ WIDTH

| VALUE (MeV)    | CL% | DOCUMENT ID | TECN     | COMMENT                   |
|----------------|-----|-------------|----------|---------------------------|
| <b>&lt;3.2</b> | 95  | AAIJ        | 20T LHCB | <i>pp</i> at 7, 8, 13 TeV |

## $\Omega_b(6350)^-$ DECAY MODES

| Mode                         | Fraction ( $\Gamma_i/\Gamma$ ) |
|------------------------------|--------------------------------|
| $\Gamma_1 \quad \Xi_b^0 K^-$ | seen                           |

## $\Omega_b(6350)^-$ BRANCHING RATIOS

| $\Gamma(\Xi_b^0 K^-)/\Gamma_{\text{total}}$ | $\Gamma_1/\Gamma$ |          |                           |
|---|-------------------|----------|---------------------------|
| VALUE                                       | DOCUMENT ID       | TECN     | COMMENT                   |
| <b>seen</b>                                 | AAIJ              | 20T LHCB | <i>pp</i> at 7, 8, 13 TeV |

## $\Omega_b(6350)^-$ REFERENCES

AAIJ      20T    PRL 124 082002      R. Aaij *et al.*      (LHCb Collab.)