

# $\Sigma(2620)$ Bumps

$$I(J^P) = 1(?^?) \quad \text{Status: } *$$

OMITTED FROM SUMMARY TABLE

## $\Sigma(2620)$ MASS

| <u>VALUE (MeV)</u>                            | <u>DOCUMENT ID</u> | <u>TECN</u> | <u>COMMENT</u>                    |
|---|--------------------|-------------|-----------------------------------|
| <b><math>\approx 2620</math> OUR ESTIMATE</b> |                    |             |                                   |
| $2542 \pm 22$                                 | DIBIANCA           | 75          | DBC $K^- N \rightarrow \Xi K \pi$ |
| $2620 \pm 15$                                 | ABRAMS             | 70          | CNTR $K^- p, K^- d$ total         |

## $\Sigma(2620)$ WIDTH

| <u>VALUE (MeV)</u> | <u>DOCUMENT ID</u> | <u>TECN</u> | <u>COMMENT</u>                    |
|--------------------|--------------------|-------------|-----------------------------------|
| $221 \pm 81$       | DIBIANCA           | 75          | DBC $K^- N \rightarrow \Xi K \pi$ |
| 175                | ABRAMS             | 70          | CNTR $K^- p, K^- d$ total         |

## $\Sigma(2620)$ DECAY MODES

| Mode                       |
|----------------------------|
| $\Gamma_1 \quad N \bar{K}$ |

## $\Sigma(2620)$ BRANCHING RATIOS

| $(J+\frac{1}{2}) \times \Gamma(N\bar{K}) / \Gamma_{\text{total}}$ | <u>DOCUMENT ID</u> | <u>TECN</u> | <u>COMMENT</u>              | $\Gamma_1 / \Gamma$ |
|---|--------------------|-------------|-----------------------------|---------------------|
| 0.32  | ABRAMS             | 70          | CNTR $K^- p, K^- d$ total   |                     |
| $0.36 \pm 0.12$   | BRICMAN            | 70          | CNTR Total, charge exchange |                     |

## $\Sigma(2620)$ REFERENCES

|          |    |                 |                            |                    |
|----------|----|-----------------|----------------------------|--------------------|
| DIBIANCA | 75 | NP B98 137      | F.A. Dibianca, R.J. Endorf | (CMU)              |
| ABRAMS   | 70 | PR D1 1917      | R.J. Abrams <i>et al.</i>  | (BNL) I            |
|          |    | Also PRL 19 678 | R.J. Abrams <i>et al.</i>  | (BNL)              |
| BRICMAN  | 70 | PL 31B 152      | C. Bricman <i>et al.</i>   | (CERN, CAEN, SACL) |