# $\Sigma(2620)$ Bumps

$I(J^P) = 1(?^?)$ Status: ∗∗

OMITTED FROM SUMMARY TABLE

## Σ(2620) MASS

| *VALUE* (MeV) | *DOCUMENT ID* | | *TECN* | *COMMENT* |
|---|---|---|---|---|
| **≈ 2620 OUR ESTIMATE** | | | | |
| 2542±22 | DIBIANCA | 75 | DBC | $K^- N \to \Xi K \pi$ |
| 2620±15 | ABRAMS | 70 | CNTR | $K^- p$, $K^- d$ total |

## Σ(2620) WIDTH

| *VALUE* (MeV) | *DOCUMENT ID* | | *TECN* | *COMMENT* |
|---|---|---|---|---|
| 221±81 | DIBIANCA | 75 | DBC | $K^- N \to \Xi K \pi$ |
| 175 | ABRAMS | 70 | CNTR | $K^- p$, $K^- d$ total |

## Σ(2620) DECAY MODES

| | Mode |
|---|---|
| $\Gamma_1$ | $N\overline{K}$ |

## Σ(2620) BRANCHING RATIOS

**$(J+\frac{1}{2})\times\Gamma(N\overline{K})/\Gamma_{total}$** **$\Gamma_1/\Gamma$**

| *VALUE* | *DOCUMENT ID* | | *TECN* | *COMMENT* |
|---|---|---|---|---|
| 0.32 | ABRAMS | 70 | CNTR | $K^- p$, $K^- d$ total |
| 0.36±0.12 | BRICMAN | 70 | CNTR | Total, charge exchange |

## Σ(2620) REFERENCES


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