

$\Lambda(2585)$ Bumps

$$I(J^P) = 0(?^?) \quad \text{Status: } **$$

OMITTED FROM SUMMARY TABLE

 **$\Lambda(2585)$ MASS
(BUMPS)**

| VALUE (MeV) | DOCUMENT ID | TECN | COMMENT |
|---|-------------|------|-------------------------------------|
| ≈ 2585 OUR ESTIMATE | | | |
| 2585 \pm 45 | ABRAMS | 70 | CNTR $K^- p, K^- d$ total |
| 2530 \pm 25 | LU | 70 | CNTR $\gamma p \rightarrow K^+ Y^*$ |

 **$\Lambda(2585)$ WIDTH
(BUMPS)**

| VALUE (MeV) | DOCUMENT ID | TECN | COMMENT |
|-------------|-------------|------|-------------------------------------|
| 300 | ABRAMS | 70 | CNTR $K^- p, K^- d$ total |
| 150 | LU | 70 | CNTR $\gamma p \rightarrow K^+ Y^*$ |

 **$\Lambda(2585)$ DECAY MODES
(BUMPS)**

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

 **$\Lambda(2585)$ BRANCHING RATIOS
(BUMPS)**

| $(J+\frac{1}{2}) \times \Gamma(N\bar{K}) / \Gamma_{\text{total}}$ | Γ_1 / Γ | | |
|---|----------------------|------|-----------------------------|
| J is not known, so only $(J+\frac{1}{2}) \times \Gamma(N\bar{K}) / \Gamma_{\text{total}}$ can be given. | | | |
| VALUE | DOCUMENT ID | TECN | COMMENT |
| 1 | ABRAMS | 70 | CNTR $K^- p, K^- d$ total |
| 0.12 \pm 0.12 | ¹ BRICMAN | 70 | CNTR Total, charge exchange |

 **$\Lambda(2585)$ FOOTNOTES
(BUMPS)**¹ The resonance is at the end of the region analyzed — no clear signal. **$\Lambda(2585)$ REFERENCES
(BUMPS)**

| | | | | |
|---------|----|-------------|---------------------------|--------------------|
| ABRAMS | 70 | PR D1 1917 | R.J. Abrams <i>et al.</i> | (BNL) I |
| Also | | PRL 16 1228 | R.L. Cool <i>et al.</i> | (BNL) I |
| BRICMAN | 70 | PL 31B 152 | C. Bricman <i>et al.</i> | (CERN, CAEN, SACL) |
| LU | 70 | PR D2 1846 | D.C. Lu <i>et al.</i> | (YALE) |