

**$\Sigma(2620)$  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>	$\Gamma_1 / \Gamma$
<u>VALUE</u>				
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)