

$\Sigma(2620)$ Bumps

$I(J^P) = 1(?^?)$ Status: **

OMITTED FROM SUMMARY TABLE

$\Sigma(2620)$ MASS

<u>VALUE (MeV)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
≈ 2620 OUR ESTIMATE			
2542 ± 22	DIBIANCA	75	DBC $K^- N \rightarrow \Xi K \pi$
2620 ± 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 ± 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>	Γ_1 / Γ
<u>VALUE</u>				
0.32	ABRAMS	70	CNTR $K^- p, K^- d$ total	
0.36 ± 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)