

# $\Sigma(2620)$ 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>
<b><math>\approx 2620</math> OUR ESTIMATE</b>			
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

$(J+\frac{1}{2}) \times \Gamma(N\bar{K}) / \Gamma_{\text{total}}$	$\Gamma_1 / \Gamma$		
<u>VALUE</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</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	+Endorf	(CMU)
ABRAMS	70	PR D1 1917	+Cool, Giacomelli, Kycia, Leontic, Li+	(BNL) I
	Also	67E PRL 19 678	Abrams, Cool, Giacomelli, Kycia, Leontic+	(BNL)
BRICMAN	70	PL 31B 152	+Ferro-Luzzi, Perreau+	(CERN, CAEN, SACL)