

$\Sigma(1940) 3/2^+$  $I(J^P) = 1(\frac{3}{2}^+)$  Status: \*

OMITTED FROM SUMMARY TABLE

 **$\Sigma(1940)$  MASS**

<u>VALUE (MeV)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<b>1941±18</b>	ZHANG	13A	DPWA Multichannel

 **$\Lambda(1945)$  WIDTH**

<u>VALUE (MeV)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<b>400±49</b>	ZHANG	13A	DPWA Multichannel

 **$\Sigma(1940)$  DECAY MODES**

Mode	Fraction ( $\Gamma_i/\Gamma$ )
$\Gamma_1$ $N\bar{K}$	(13.0±2.0) %
$\Gamma_2$ $\Sigma\pi$	( 4.0±2.0) %
$\Gamma_3$ $\Sigma(1385)\pi$ , <i>P</i> -wave	(22 ±7 ) %
$\Gamma_4$ $\Lambda(1520)\pi$ , <i>S</i> -wave	( 5.0±2.0) %

 **$\Sigma(1940)$  BRANCHING RATIOS**

$\Gamma(N\bar{K})/\Gamma_{\text{total}}$	$\Gamma_1/\Gamma$
<u>VALUE</u>	<u>DOCUMENT ID</u> <u>TECN</u> <u>COMMENT</u>
<b>0.13±0.02</b>	ZHANG 13A DPWA Multichannel

$\Gamma(\Sigma\pi)/\Gamma_{\text{total}}$	$\Gamma_2/\Gamma$
<u>VALUE</u>	<u>DOCUMENT ID</u> <u>TECN</u> <u>COMMENT</u>
<b>0.04±0.02</b>	ZHANG 13A DPWA Multichannel

$\Gamma(\Sigma(1385)\pi, P\text{-wave})/\Gamma_{\text{total}}$	$\Gamma_3/\Gamma$
<u>VALUE</u>	<u>DOCUMENT ID</u> <u>TECN</u> <u>COMMENT</u>
<b>0.22±0.07</b>	ZHANG 13A DPWA Multichannel

$\Gamma(\Lambda(1520)\pi, S\text{-wave})/\Gamma_{\text{total}}$	$\Gamma_4/\Gamma$
<u>VALUE</u>	<u>DOCUMENT ID</u> <u>TECN</u> <u>COMMENT</u>
<b>0.05±0.02</b>	ZHANG 13A DPWA Multichannel

 **$\Sigma(1940)$  REFERENCES**ZHANG 13A PR C88 035205 H. Zhang *et al.* (KSU)