$\Sigma(1940)\ 3/2^+$

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

OMITTED FROM SUMMARY TABLE

$\Sigma(1940)$ MASS

VALUE (MeV)	*DOCUMENT ID*		*TECN*	*COMMENT*
1941±18	ZHANG	13A	DPWA	Multichannel

$\Lambda(1945)$ WIDTH

VALUE (MeV)	*DOCUMENT ID*		*TECN*	*COMMENT*
400±49	ZHANG	13A	DPWA	Multichannel

$\Sigma(1940)$ DECAY MODES

	Mode	Fraction (Γ_i/Γ)
Γ_1	$N\overline{K}$	(13.0±2.0) %
Γ_2	$\Sigma\pi$	(4.0±2.0) %
Γ_3	$\Sigma(1385)\pi$, *P*-wave	(22 ±7) %
Γ_4	$\Lambda(1520)\pi$, *S*-wave	(5.0±2.0) %

$\Sigma(1940)$ BRANCHING RATIOS

$\Gamma(N\overline{K})/\Gamma_{total}$ Γ_1/Γ

VALUE	*DOCUMENT ID*		*TECN*	*COMMENT*
0.13±0.02	ZHANG	13A	DPWA	Multichannel

$\Gamma(\Sigma\pi)/\Gamma_{total}$ Γ_2/Γ

VALUE	*DOCUMENT ID*		*TECN*	*COMMENT*
0.04±0.02	ZHANG	13A	DPWA	Multichannel

$\Gamma(\Sigma(1385)\pi$, *P*-wave$)/\Gamma_{total}$ Γ_3/Γ

VALUE	*DOCUMENT ID*		*TECN*	*COMMENT*
0.22±0.07	ZHANG	13A	DPWA	Multichannel

$\Gamma(\Lambda(1520)\pi$, *S*-wave$)/\Gamma_{total}$ Γ_4/Γ

VALUE	*DOCUMENT ID*		*TECN*	*COMMENT*
0.05±0.02	ZHANG	13A	DPWA	Multichannel

$\Sigma(1940)$ REFERENCES

ZHANG 13A PR C88 035205 H. Zhang *et al.* (KSU)