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

$I(J^P) = 1(\frac{3}{2}^+)$ 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	$\Sigma\pi$	$(\ 4.0\pm2.0)$ %
Γ_3	$\Sigma(1385)\pi$, P-wave	$(22\ \ \pm7\ \ )$ %
Γ_4	$\Lambda(1520)\pi$, S-wave	$(\ 5.0\pm2.0)$ %

$\Sigma(1940)$ BRANCHING RATIOS

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

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

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

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

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

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

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