

NODE=B164

$\Lambda(1710) \ 1/2^+$

$I(J^P) = 0(\frac{1}{2}^+)$ Status: *

OMITTED FROM SUMMARY TABLE

$\Lambda(1710)$ MASS

NODE=B164M

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
1713±13	ZHANG	13A	DPWA Multichannel

NODE=B164M

$\Lambda(1710)$ WIDTH

NODE=B164W

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
180±42	ZHANG	13A	DPWA Multichannel

NODE=B164W

$\Lambda(1710)$ DECAY MODES

NODE=B164215;NODE=B164

Mode	Fraction (Γ_i/Γ)
$\Gamma_1 \ N\bar{K}$	(43±4) %
$\Gamma_2 \ \Sigma\pi$	(21±5) %
$\Gamma_3 \ \Sigma^*(1385)\pi, \ P\text{-wave}$	(20±8) %
$\Gamma_4 \ N\bar{K}^*(892)$	
$\Gamma_5 \ N\bar{K}^*(892), \ S=1/2$	(5±4) %
$\Gamma_6 \ N\bar{K}^*(892), \ S=3/2, \ P\text{-wave}$	(10±8) %

DESIG=1

DESIG=2

DESIG=3

DESIG=4

DESIG=5

DESIG=6

$\Lambda(1710)$ BRANCHING RATIOS

NODE=B164220

$\Gamma(N\bar{K})/\Gamma_{\text{total}}$	Γ_1/Γ			
VALUE	DOCUMENT ID	TECN	COMMENT	
0.43±0.04	ZHANG	13A	DPWA	Multichannel
$\Gamma(\Sigma\pi)/\Gamma_{\text{total}}$	Γ_2/Γ			
VALUE	DOCUMENT ID	TECN	COMMENT	
0.21±0.05	ZHANG	13A	DPWA	Multichannel
$\Gamma(\Sigma^*(1385)\pi, P\text{-wave})/\Gamma_{\text{total}}$	Γ_3/Γ			
VALUE	DOCUMENT ID	TECN	COMMENT	
0.20±0.08	ZHANG	13A	DPWA	Multichannel
$\Gamma(N\bar{K}^*(892), S=1/2)/\Gamma_{\text{total}}$	Γ_5/Γ			
VALUE	DOCUMENT ID	TECN	COMMENT	
0.05±0.04	ZHANG	13A	DPWA	Multichannel
$\Gamma(N\bar{K}^*(892), S=3/2, P\text{-wave})/\Gamma_{\text{total}}$	Γ_6/Γ			
VALUE	DOCUMENT ID	TECN	COMMENT	
0.10±0.08	ZHANG	13A	DPWA	Multichannel

NODE=B164R01
NODE=B164R01

NODE=B164R02
NODE=B164R02

NODE=B164R03
NODE=B164R03

NODE=B164R04
NODE=B164R04

NODE=B164R05
NODE=B164R05

$\Lambda(1710)$ REFERENCES

NODE=B164

ZHANG	13A	PR C88 035205	H. Zhang <i>et al.</i>	(KSU)
-------	-----	---------------	------------------------	-------

REFID=55441