

Nonresonant model	$\Lambda_c(2940)^+ J^P$	$\Delta \ln \mathcal{L}$	χ^2/ndf	$P(\chi^2, \text{ndf})$ [%]
Exponential	No $\Lambda_c^+(2940)$	54.6	337.3/230	0.0
	$1/2^-$	25.5	293.1/228	0.2
	$1/2^+$	34.2	306.4/228	0.0
	$3/2^-$	0.0	246.9/228	18.6
	$3/2^+$	14.8	269.1/228	3.2
	$5/2^-$	14.5	269.9/228	3.0
	$5/2^+$	15.6	271.7/228	2.5
	$7/2^-$	23.0	276.4/228	1.6
	$7/2^+$	29.0	300.2/228	0.1
Polynomial	No $\Lambda_c^+(2940)$	25.5	296.0/228	0.2
	$1/2^-$	8.9	270.0/226	2.4
	$1/2^+$	7.2	266.1/226	3.5
	$3/2^-$	-4.2	238.0/226	27.9
	$3/2^+$	4.9	253.4/226	10.2
	$5/2^-$	-0.6	249.0/226	14.0
	$5/2^+$	4.9	250.5/226	12.6
	$7/2^-$	10.6	270.0/226	2.4
	$7/2^+$	11.7	273.0/226	1.8