

$N(1685) \text{ ? ?}$

$$I(J^P) = \frac{1}{2}(\text{? ?}) \quad \text{Status: } *$$

OMITTED FROM SUMMARY TABLE

There is a small literature (which we do not try to cover) on this possible narrow state. See KUZNETSOV 11A, MART 11, and the other papers for further references. This state does not gain status by being a sought-after member of a baryon anti-decuplet.

$N(1685)$ MASS

<u>VALUE (MeV)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
● ● ● We do not use the following data for averages, fits, limits, etc. ● ● ●			
1670 ± 5	WERTHMUEL.13	CRBT	$\gamma d \rightarrow \eta n (p), \gamma ^3\text{He} \rightarrow \eta n (pp)$
~ 1670	JAEGLE 11	CBTP	$\gamma d \rightarrow \eta n (p)$
~ 1685	KUZNETSOV 11	GRAL	$\gamma d \rightarrow \gamma n (p)$
~ 1680	KUZNETSOV 07	GRAL	$\gamma d \rightarrow \eta n (p)$

$N(1685)$ WIDTH

<u>VALUE (MeV)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
● ● ● We do not use the following data for averages, fits, limits, etc. ● ● ●			
30 ± 15	WERTHMUEL.13	CRBT	$\gamma d \rightarrow \eta n (p), \gamma ^3\text{He} \rightarrow \eta n (pp)$
~ 25	JAEGLE 11	CBTP	$\gamma d \rightarrow \eta n (p)$
< 30	KUZNETSOV 11	GRAL	$\gamma d \rightarrow \gamma n (p)$
< 30	KUZNETSOV 07	GRAL	$\gamma d \rightarrow \eta n (p)$

$N(1685)$ REFERENCES

WERTHMUEL...13	PRL 111 232001	D. Werthmueller <i>et al.</i>	(Crystal Ball/TAPS Collab.)
JAEGLE 11	EPJ A47 89	I. Jaegle <i>et al.</i>	(CBELSA/TAPS Collab.)
Also	PRL 100 252002	I. Jaegle <i>et al.</i>	(CBELSA/TAPS Collab.)
KUZNETSOV 11	PR C83 022201	V. Kuznetsov <i>et al.</i>	(GRAAL Collab.)
KUZNETSOV 11A	JETPL 94 503	V. Kuznetsov, M.V. Polyakov, M. Thurmann	(INRM+)
MART 11	PR D83 094015	T. Mart	(U. Indonesia)
KUZNETSOV 07	PL B647 23	V. Kuznetsov <i>et al.</i>	(GRAAL Collab.)