$a_0(1450)$

$I^G(J^{PC}) = 1^-(0^{++})$

OMITTED FROM SUMMARY TABLE

From a partial-wave analysis of the $\pi\eta$ system. Needs confirmation.
See minireview on scalar mesons under $f_0(1370)$.

$a_0(1450)$ MASS

VALUE (MeV)	*DOCUMENT ID*		*TECN*	*COMMENT*
1450±40	AMSLER	94D	CBAR	0.0 $\overline{p}p \rightarrow \pi^0\pi^0\eta$
• • • We do not use the following data for averages, fits, limits, etc. • • •				
1470±25	[1] AMSLER	95D	CBAR	0.0 $\overline{p}p \rightarrow \pi^0\pi^0\pi^0$, $\pi^0\eta\eta$, $\pi^0\pi^0\eta$
1435±40	BUGG	94	RVUE	$\overline{p}p \rightarrow \eta 2\pi^0$

[1] Coupled-channel analysis of AMSLER 95B, AMSLER 95C, and AMSLER 94D.

$a_0(1450)$ WIDTH

VALUE (MeV)	*DOCUMENT ID*		*TECN*	*COMMENT*
270±40	AMSLER	94D	CBAR	0.0 $\overline{p}p \rightarrow \pi^0\pi^0\eta$
• • • We do not use the following data for averages, fits, limits, etc. • • •				
265±30	[2] AMSLER	95D	CBAR	0.0 $\overline{p}p \rightarrow \pi^0\pi^0\pi^0$, $\pi^0\eta\eta$, $\pi^0\pi^0\eta$
270±40	BUGG	94	RVUE	$\overline{p}p \rightarrow \eta 2\pi^0$

[2] Coupled-channel analysis of AMSLER 95B, AMSLER 95C, and AMSLER 94D.

$a_0(1450)$ DECAY MODES

	Mode	Fraction (Γ_i/Γ)
Γ_1	$\pi\eta$	seen

$a_0(1450)$ REFERENCES

AMSLER	95B	PL B342 433	+Armstrong, Brose+	(Crystal Barrel Collab.)
AMSLER	95C	PL B353 571	+Armstrong, Hackman+	(Crystal Barrel Collab.)
AMSLER	95D	PL B355 425	+Armstrong, Spanier+	(Crystal Barrel Collab.)
AMSLER	94D	PL B333 277	+Anisovich, Spanier+	(Crystal Barrel Collab.) IGJPC
BUGG	94	PR D50 4412	+Anisovich+	(LOQM)