NODE=B143

$\Omega(2470)^-$

Status: ∗∗

OMITTED FROM SUMMARY TABLE

NODE=B143

A peak in the $\Omega^- \pi^+ \pi^-$ mass spectrum with a signal significance claimed to be at least 5.5 standard deviations. There is no reason to seriously doubt the existence of this state, but unless the evidence is overwhelming we usually wait for confirmation from a second experiment before elevating peaks to the Summary Table.

$\Omega(2470)^-$ MASS

NODE=B143M

NODE=B143M

VALUE (MeV)	*EVTS*	*DOCUMENT ID*		*TECN*	*COMMENT*
2474±12	59	ASTON	88G	LASS	$K^- p$ 11 GeV/c

$\Omega(2470)^-$ WIDTH

NODE=B143W

NODE=B143W

VALUE (MeV)	*EVTS*	*DOCUMENT ID*		*TECN*	*COMMENT*
72±33	59	ASTON	88G	LASS	$K^- p$ 11 GeV/c

$\Omega(2470)^-$ DECAY MODES

NODE=B143215;NODE=B143

	Mode	Fraction (Γ_i/Γ)
Γ_1	$\Omega^- \pi^+ \pi^-$	seen

DESIG=1

$\Omega(2470)^-$ BRANCHING RATIOS

NODE=B143220

$\Gamma(\Omega^- \pi^+ \pi^-)/\Gamma_{total}$ **Γ_1/Γ**

NODE=B143R00

NODE=B143R00

VALUE	*EVTS*	*DOCUMENT ID*		*TECN*	*COMMENT*
seen	59	ASTON	88G	LASS	$K^- p$ 11 GeV/c

$\Omega(2470)^-$ REFERENCES

NODE=B143

ASTON 88G PL B215 799 D. Aston *et al.* (SLAC, NAGO, CINC, INUS)

REFID=40723