

$\Phi(1860)$

$$I(J^P) = \frac{3}{2}(??) \quad \text{Status: } *$$

OMITTED FROM SUMMARY TABLE

A peak seen in the $\Xi^- \pi^-$ invariant-mass spectrum. Confirmation is needed. The minimum quark content would be $ssd d\bar{u}$.

$\Phi(1860)$ MASS

<u>VALUE (MeV)</u>	<u>EVTS</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
1862 ±2	36	¹ ALT	04 NA49	$pp, \sqrt{s} = 17.2 \text{ GeV}$

$\Phi(1860)$ WIDTH

<u>VALUE (MeV)</u>	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<18	90	¹ ALT	04 NA49	$pp, \sqrt{s} = 17.2 \text{ GeV}$

¹ ALT 04 estimates a peak of 38 $\Xi^- \pi^-$ events above a background of 43 events and claims a significance of 4.2 standard deviations. Combining $\Xi^- \pi^-$, $\Xi^- \pi^+$, $\Xi^+ \pi^+$, and $\Xi^+ \pi^-$ events, ALT 04 estimates a peak of 69 over a background of 75, for 5.8 σ . However, when the number of bins searched in is taken into account, the significance then falls to 4.2 σ .

$\Phi(1860)$ REFERENCES

ALT 04 PRL 92 042003 C. Alt *et al.* (CERN NA49 Collab.)