

Answers to reviewers' comments:

Reviewer #1:

We thank the referee for his careful reading of our paper and we are pleased by his favourable report.

We follow his advice to rephrase one sentence which was ambiguous. The report says:

Reviewer: One point however should be clarified: on page 6, last line of the second to last paragraph, you claim "In contrast to the G and I-waves, the odd F and H-waves have an order of magnitude more relative intensity than in the $\eta\pi^-$ data.". However, when comparing the intensities in Fig. 3 and 4, for those waves, the difference appears to be at most a factor of two. Perhaps the statement is misleading (since while the odd-L waves have higher intensity in $\eta'\pi^-$ than in $\eta\pi^-$, the even even-L waves have lower intensity in $\eta'\pi^-$ than in $\eta\pi^-$, do you mean the ratios F:G and H:I ?), but this statement needs to be written more clearly.

Answer:

We have replaced that sentence by the following two sentences:

"In contrast to the G and I-waves, the odd F and H-waves have a factor of 2-3 more intensity than in the $\eta\pi^-$ channel. Relative to the total intensities observed in the two channels, the odd-L waves are enhanced by an order of magnitude in $\eta'\pi^-$."

In addition, in the new version we have corrected the 2 typos noted by the referee and 2 more that we found.

on p.2, paragraph "The data were collected.." 4th line "identification"

p.3, paragraph starting "Sharp η ..", 1st line correct hyphen length after 3 MeV/c²

p.3, paragraph starting "To visualize..", 4th line "additionally"

p.4, Fig.1 (b), mistake in label ! must read: (b) $m(\eta'\pi^-)$

-So, here the Greek letter η must be replaced by η' .

We have also replaced citation [14] with the recent paper "The COMPASS Setup for Physics with Hadron Beams", <http://arxiv.org/abs/arXiv:1410.1797>