

K^0 Invariant Mass Studies in MIPP

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First, about me...

I just graduated from IU in May.

Previously I had worked with Alex Dzierba here at IU for three years, doing work with hardware R&D, simulations, and analysis.

Kaon invariant mass in MIPP:

This was studied by Nick Solomey earlier this year, and some of his results seemed to suggest that the K^0 mass peak seemed to shift upwards, possibly related to the short in the JGG magnet.

I will be studying this possible shift in the kaon mass.

As of today, I have a preliminary algorithm to analyze the data, but it needs more work to produce a good peak of the kaon mass.

Once that is done, I can look at the measured mass versus time, and see if there is any change in the peak that corresponds to shorts in the magnet.