

TOF Analysis Update

Andrew Godley
Kevin Wilson
Kevin Ludwick
Carl Rosenfeld

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Plans

- Last week, developed “Isolated Bar” cut that ensures a superluminal free sample.
- Didn't mention last week, but we are using Andre's HavePileUp120 which is important for cleaning the sample, especially the beam track sample.
- Kevin Wilson, after confirming this result, is picking up his ADC correction work that was hampered by the presence of superluminals with this new sample
- As the “Isolated Bar” cut can reduce the sample by up to 50%, Andrew is reviewing it to try to recover events

Superluminal tests

- Amount of activity in wall as a whole seems key
- Amount of activity near bar of interest is more important – if bar 320 active, but bars 318, 322 are not – still mainly superluminal
- Tried cuts (without success) based on:
 - number of PMTs
 - Number of track to bar matches
 - number of PMT/number of tracks
 - Number of PMTs/number of track to bar matches
- Will try cuts based on
 - Total adc activity in wall
 - Number of pmts with $\text{adc} > \text{some threshold}$

Next Week

- Andrew will spend this week trying to improve non-superluminal statistics
- Then switch to temperature correction code – which also produces bar to bar time offsets – big part of the calibration
- Holger and his summer student offered to help test the TOF electronics for cross talk. Carl is/will be in contact with Holger about this