

# Timing for Scaling of Accidentals

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## Basic concept

The basic idea to determine the accidental scaling factor is to compare the energy difference between tagger and pair spectrometer energies of PS trigger events with prompt timing to those with accidental timing.

→ If timing is not calibrated result will be skewed!

Found inconsistencies between different methods to determine the scaling of the accidental background. The different methods do rely on cuts in timing and they do differ as to how this cuts are applied. If the timing is not very well aligned different results may occur.

# Example timing

Two examples of timing between tagger and pair spectrometer:

