The Ohio State University

pueo::Dataset::getEntry() behavior

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- Example: `pueoBuilder/components/pueoEvent/examples/`
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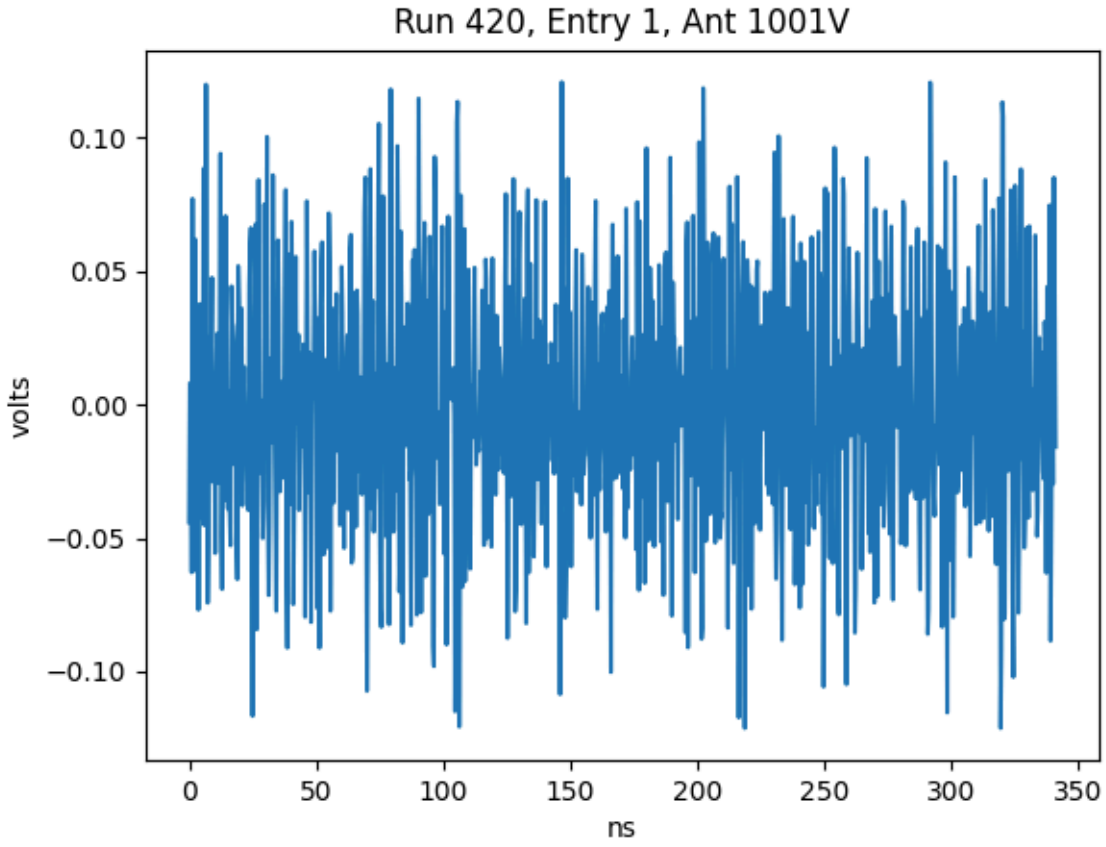
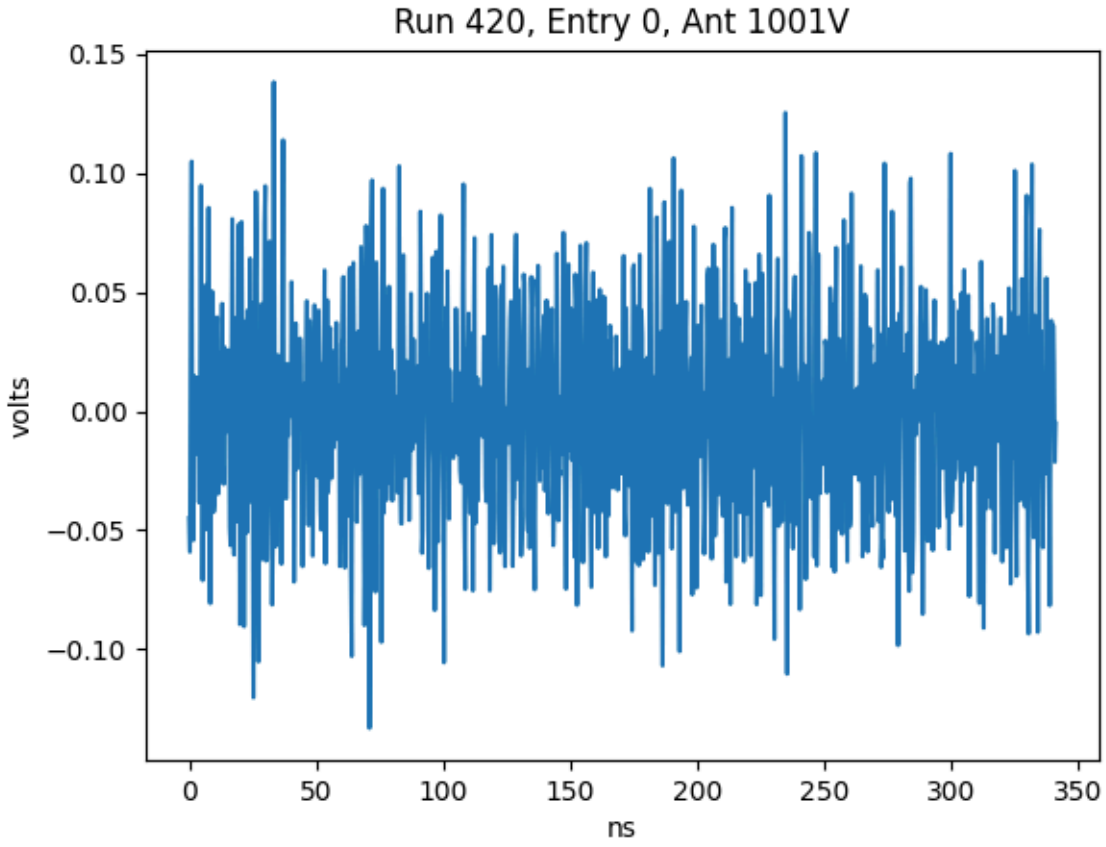
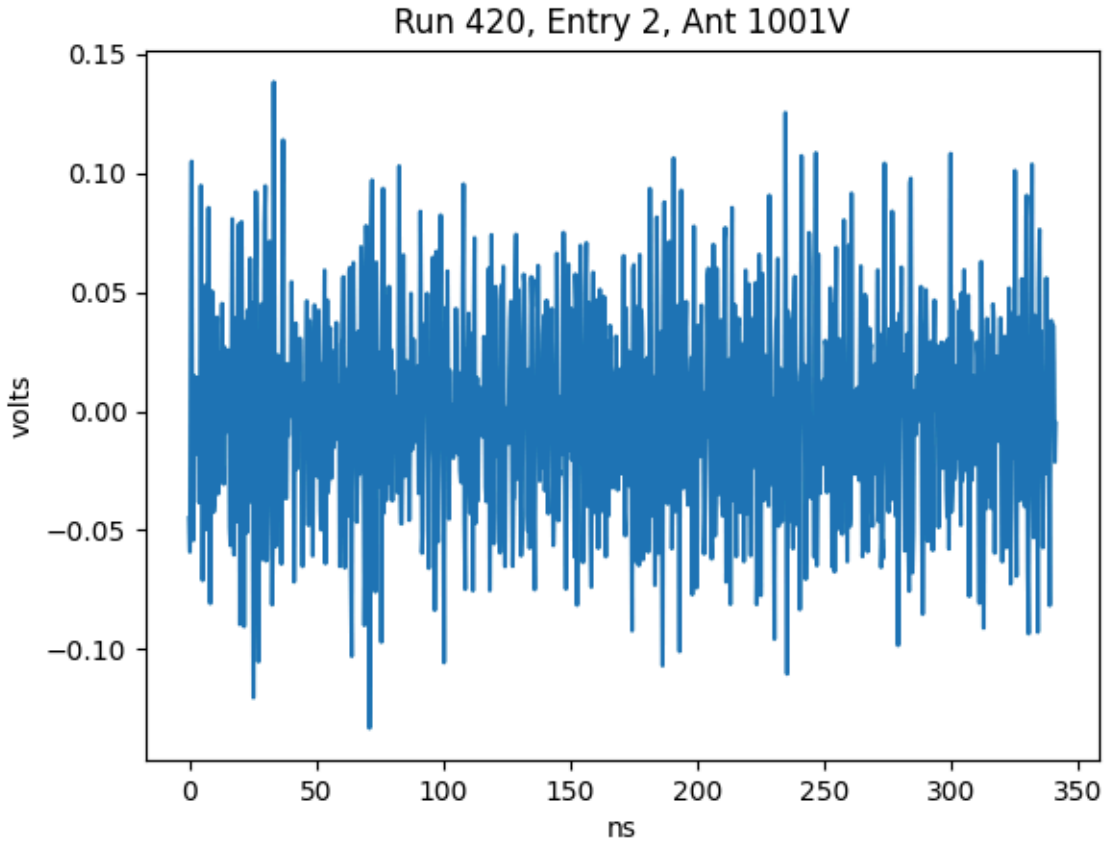
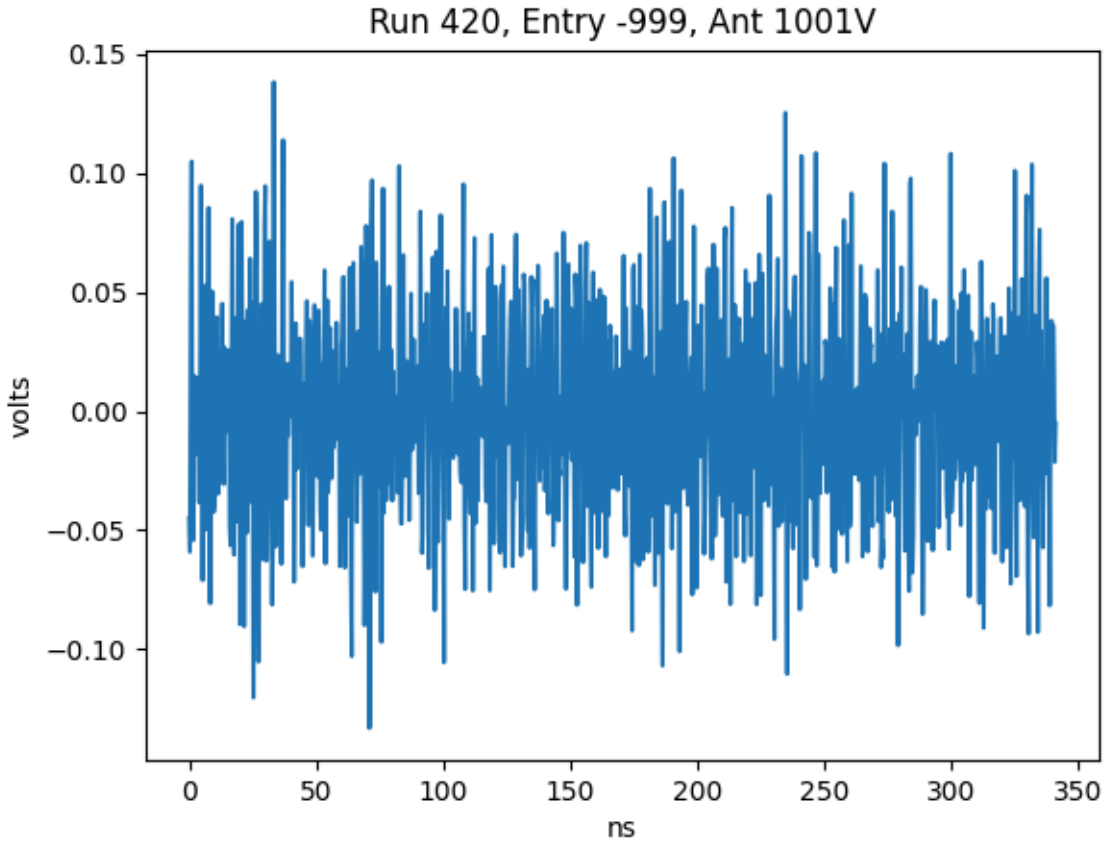
- The python script and the ROOT macro behave the same in this case.
- Toy simulation run; has 2 passed entries.
- Behavior right now:
  - if request entry 0 or 1, works as expected.
  - Request non-existent entry: error message printed, but plot still made (entry 0 is used)


Run 420, Entry 1, Ant 1001V
volts
0.10
0.05
0.00
−0.05
−0.10
0
50
100
150
200
250
300
350
ns


Run 420, Entry 0, Ant 1001V
0.15
0.10
0.05
0.00
−0.05
−0.10
volts
0
50
100
150
200
250
300
350
ns


Run 420, Entry 2, Ant 1001V
0.15
0.10
0.05
0.00
−0.05
−0.10
volts
0
50
100
150
200
250
300
350
ns


Run 420, Entry -999, Ant 1001V
0.15
0.10
0.05
0.00
−0.05
−0.10
volts
0
50
100
150
200
250
300
350
ns

```
399 int pueo::Dataset::getEntry(int entryNumber)
400 {
401
402   //invalidate the indices
403   fIndex = -1;
404   fCutIndex=-1;
405
406
407   if (entryNumber < 0 || entryNumber >= (fDecimated ? fDecimatedHeadTree : fHeadTree)->GetEntries())
408   {
409     fprintf(stderr,"Requested entry %d too big or small!\n", entryNumber);
410   }
411   else
412   {
413     (fDecimated ? fDecimatedEntry : fWantedEntry) = entryNumber;
414     if (fDecimated)
415     {
416       fDecimatedHeadTree->GetEntry(fDecimatedEntry);
417       fWantedEntry = fHeadTree->GetEntryNumberWithIndex(fHeader->eventNumber);
418
419     }
420     if (!fHaveUsefulFile) fUsefulDirty = true;
421     if (!fHaveGpsEvent) fGpsDirty = true;
422   }
```