

# K-Koto Meeting

2021/07/13

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# Fiber + W detector

- 27 cm × 27 cm × (0.15 mm W + 1 mm scintillator) × 110 layers
  - starting from tungsten
  - 270 × 110 channels
- Uploaded on [https://github.com/kyj0118/Fiber\\_W](https://github.com/kyj0118/Fiber_W)
- 300 MB / 10k events

# Muon DAQ decoder (binary → root file)

```
*****
*Tree      :tree      : MUON DAQ Data *
*Entries   : 10567 : Total = 432673343 bytes File Size = 49440471 *
*          :       : Tree compression factor = 8.72 *
*****
*Br 0 :mid      : mid/I *
*Entries   : 10567 : Total Size= 42975 bytes File Size = 224 *
*Baskets   : 1 : Basket Size= 51200 bytes Compression= 108.81 *
*.....*
*Br 1 :trigger_type : trigger_type/I *
*Entries   : 10567 : Total Size= 43038 bytes File Size = 218 *
*Baskets   : 1 : Basket Size= 51200 bytes Compression= 111.85 *
*.....*
*Br 2 :local_tnum : local_tnum/I *
*Entries   : 10567 : Total Size= 43024 bytes File Size = 8584 *
*Baskets   : 1 : Basket Size= 51200 bytes Compression= 2.84 *
*.....*
*Br 3 :trigger_pattern : trigger_pattern/I *
*Entries   : 10567 : Total Size= 43059 bytes File Size = 2524 *
*Baskets   : 1 : Basket Size= 51200 bytes Compression= 9.66 *
*.....*
*Br 4 :ttime     : ttime/l *
*Entries   : 10567 : Total Size= 85341 bytes File Size = 23182 *
*Baskets   : 2 : Basket Size= 51200 bytes Compression= 2.10 *
*.....*
*Br 5 :ltime     : ltime/l *
*Entries   : 10567 : Total Size= 85341 bytes File Size = 23181 *
*Baskets   : 2 : Basket Size= 51200 bytes Compression= 2.10 *
*.....*
*Br 6 :waveform  : waveform[40][254]/s *
*Entries   : 10567 : Total Size= 215323758 bytes File Size = 41794445 *
*Baskets   : 6079 : Basket Size= 25600000 bytes Compression= 4.80 *
*.....*
*Br 7 :wftime    : wftime[40][254]/s *
*Entries   : 10567 : Total Size= 215311588 bytes File Size = 4377186 *
*Baskets   : 6079 : Basket Size= 25600000 bytes Compression= 45.84 *
*.....*
*Br 8 :pedestal  : pedestal[40]/I *
*Entries   : 10567 : Total Size= 1694874 bytes File Size = 21657 *
*Baskets   : 37 : Basket Size= 113152 bytes Compression= 76.31 *
*.....*
```

**DATA SIZE:**

50 MB / 10k events

module id

trigger type(?): all zero

local trigger number(?) = event ID

= trigger multiplicity

trigger time

local trigger time

waveform ADC

waveform time

pedestal