

24th/July/2006

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E570 meeting report

New calibrations
and

Comparisons of the first half of a cycle
with the second half of one

New Calibrations

version 6 : 2 parts

version 7 : 4 parts

version 8 : 8 parts

with considering the gain jumps
of SDD3 and SDD5 in 2nd cycle

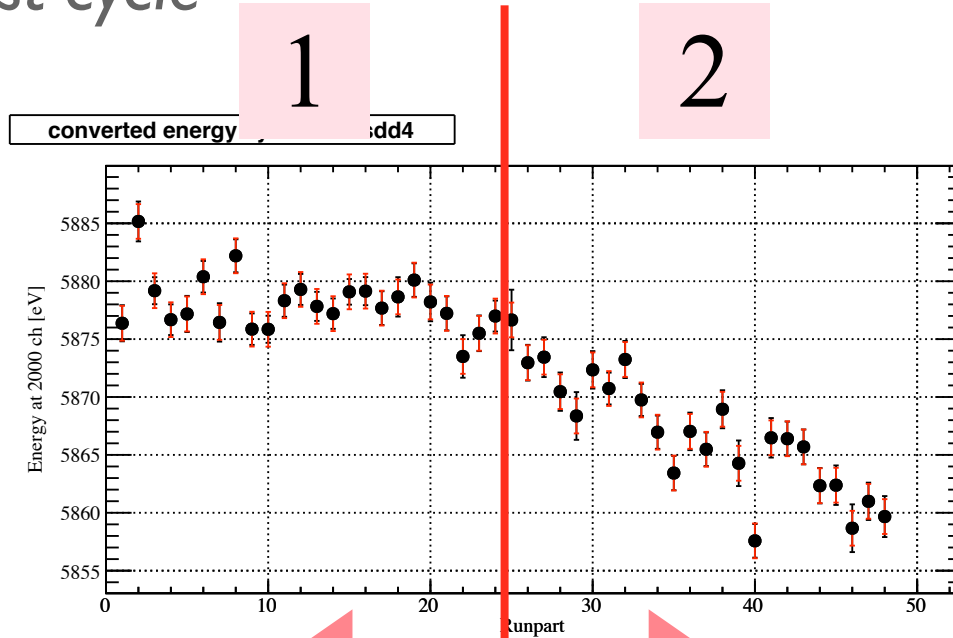
gain drifts of version 4,
1st cycle

Version 6

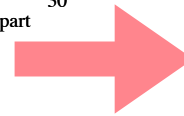
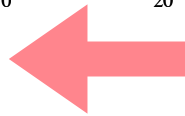
the partition of
1st cycle

2 parts

sdd4

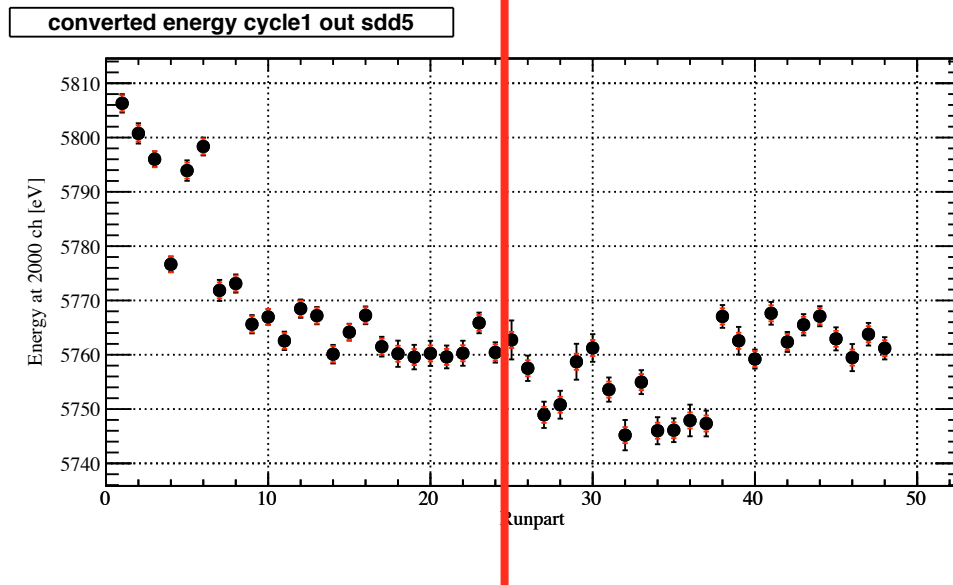


the first half



the second half

sdd5



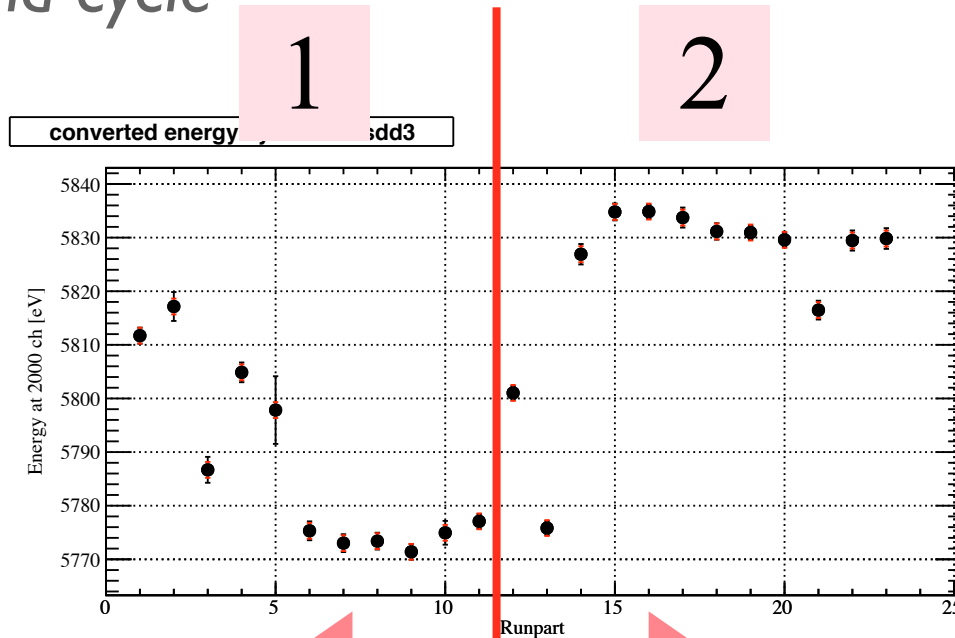
gain drifts of version 4,
2nd cycle

Version 6

the partition of
2nd cycle

2 parts

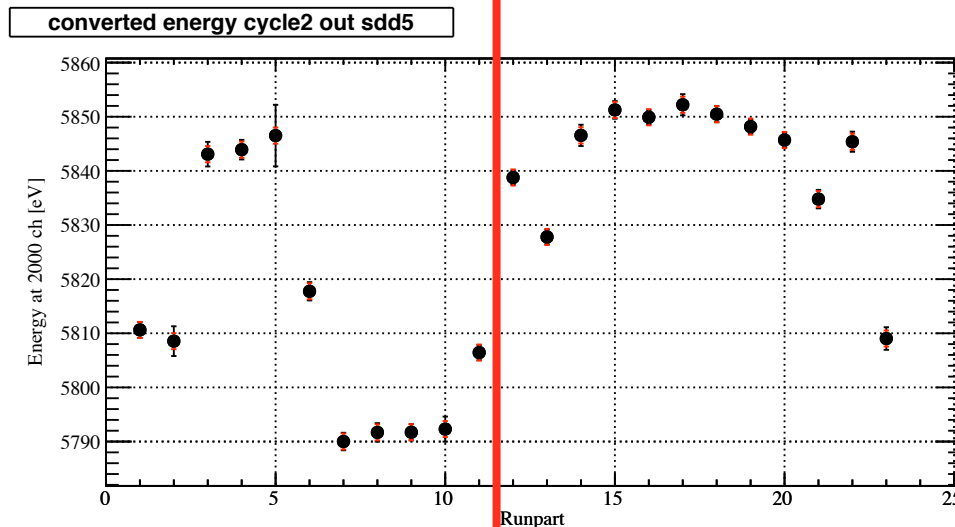
sdd3



the first half

the second half

sdd5



these gain
jumps are
considered

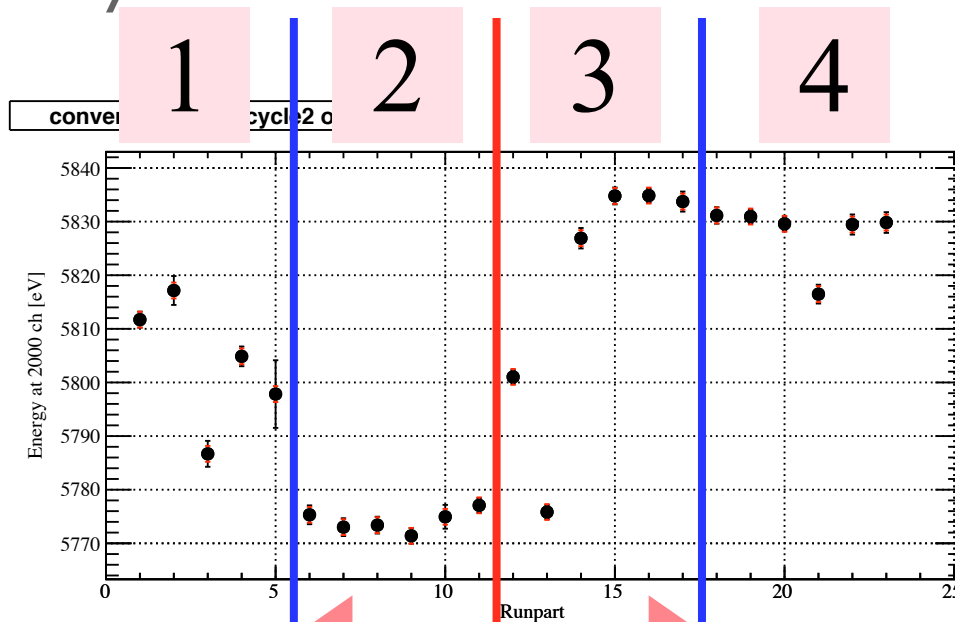
gain drifts of version 4,
2nd cycle

Version 7

the partition of
2nd cycle

4 parts

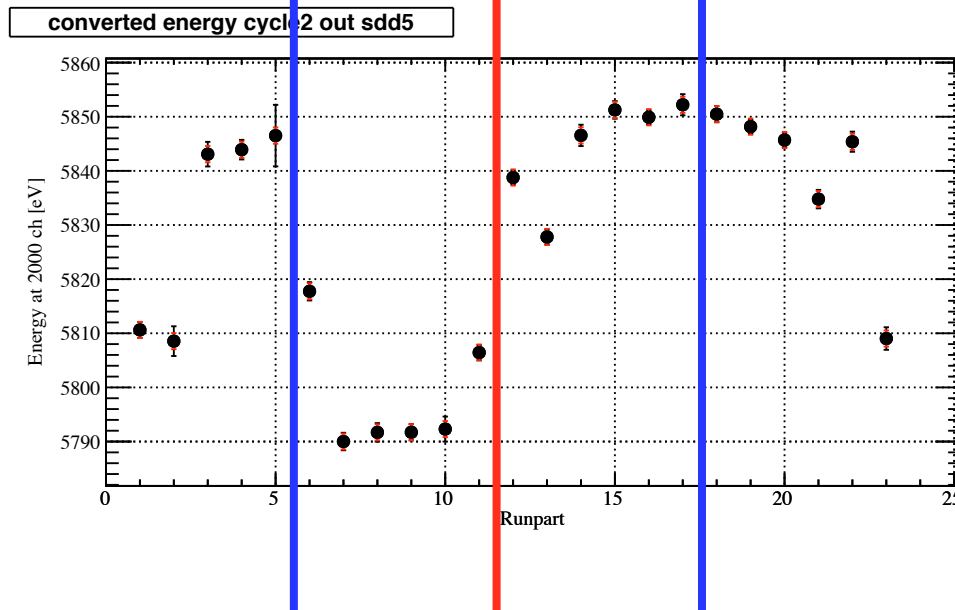
sdd3



the first half

the second half

sdd5



these gain
jumps are
considered

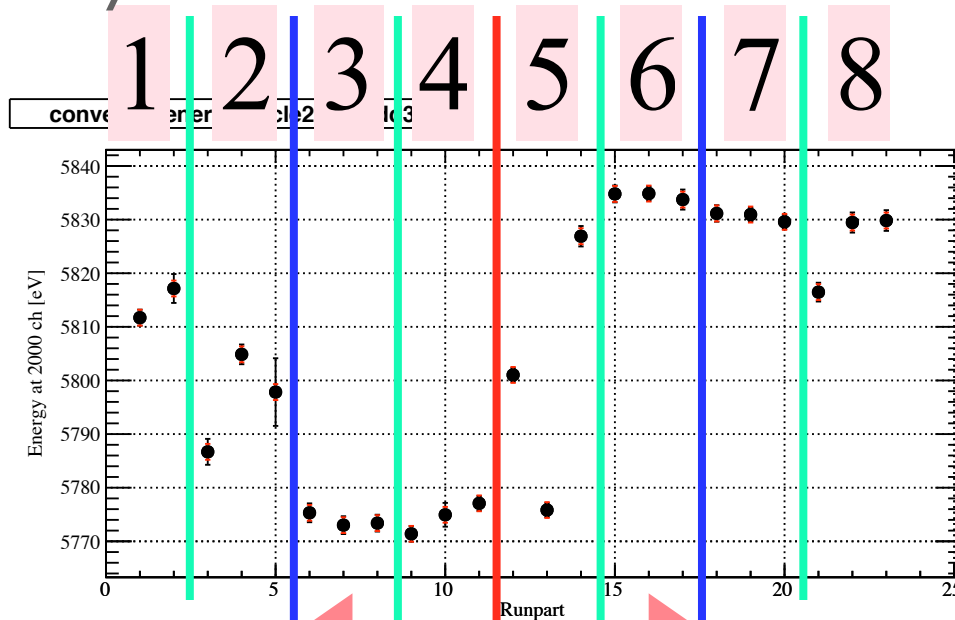
gain drifts of version 4,
2nd cycle

Version 8

the partition of
2nd cycle

8 parts

sdd3

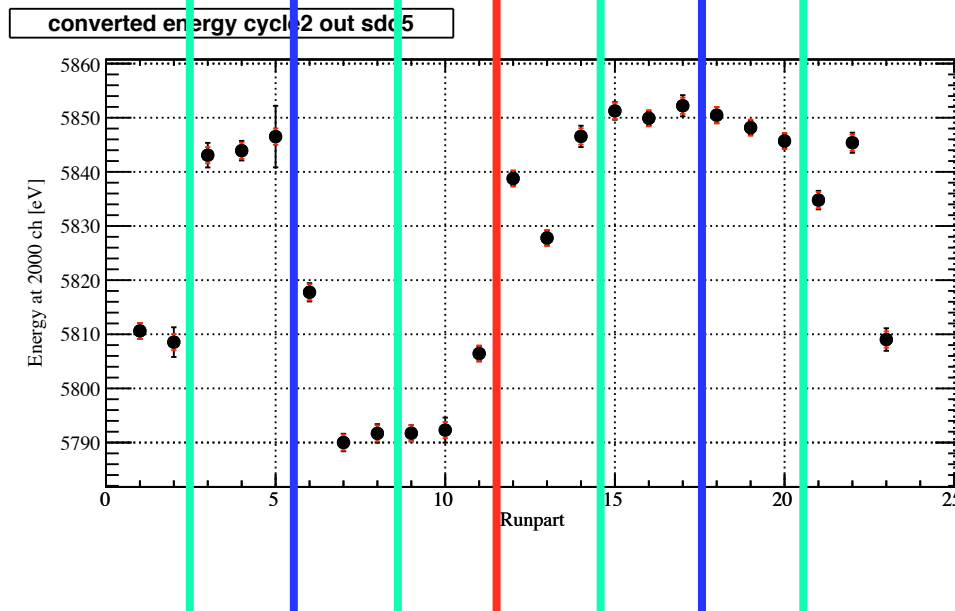


the first half



the second half

sdd5



these gain
jumps are
considered

Fit result comparisons

1. the 1st half and the 2nd half of the runs
2. calibration versions : ver6, ver7 and ver8

Fitting

self trigger

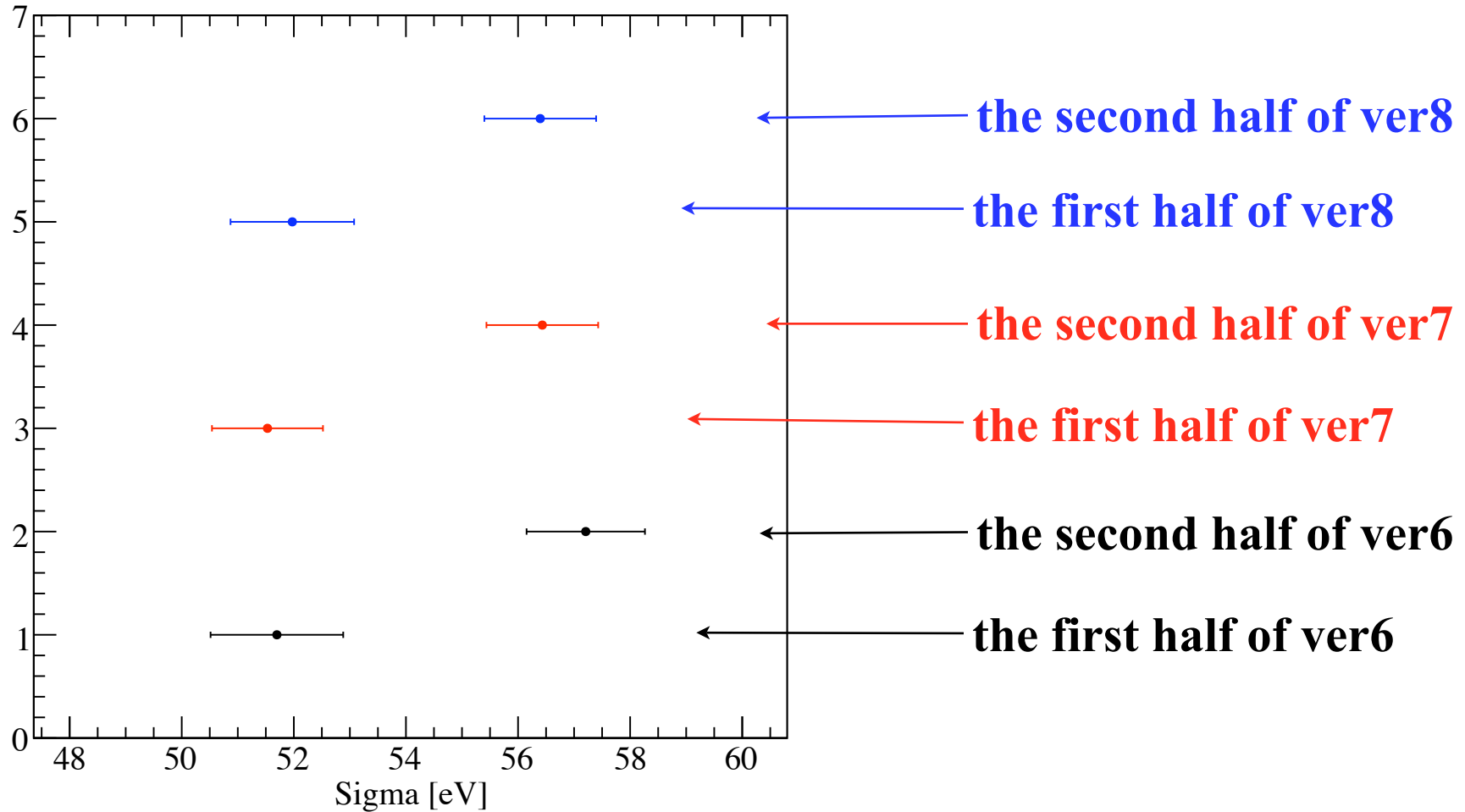
e549 trigger
(with vertex cuts)

TiKaI sigma Fano factor

KHeX La sigma Shift Gamma

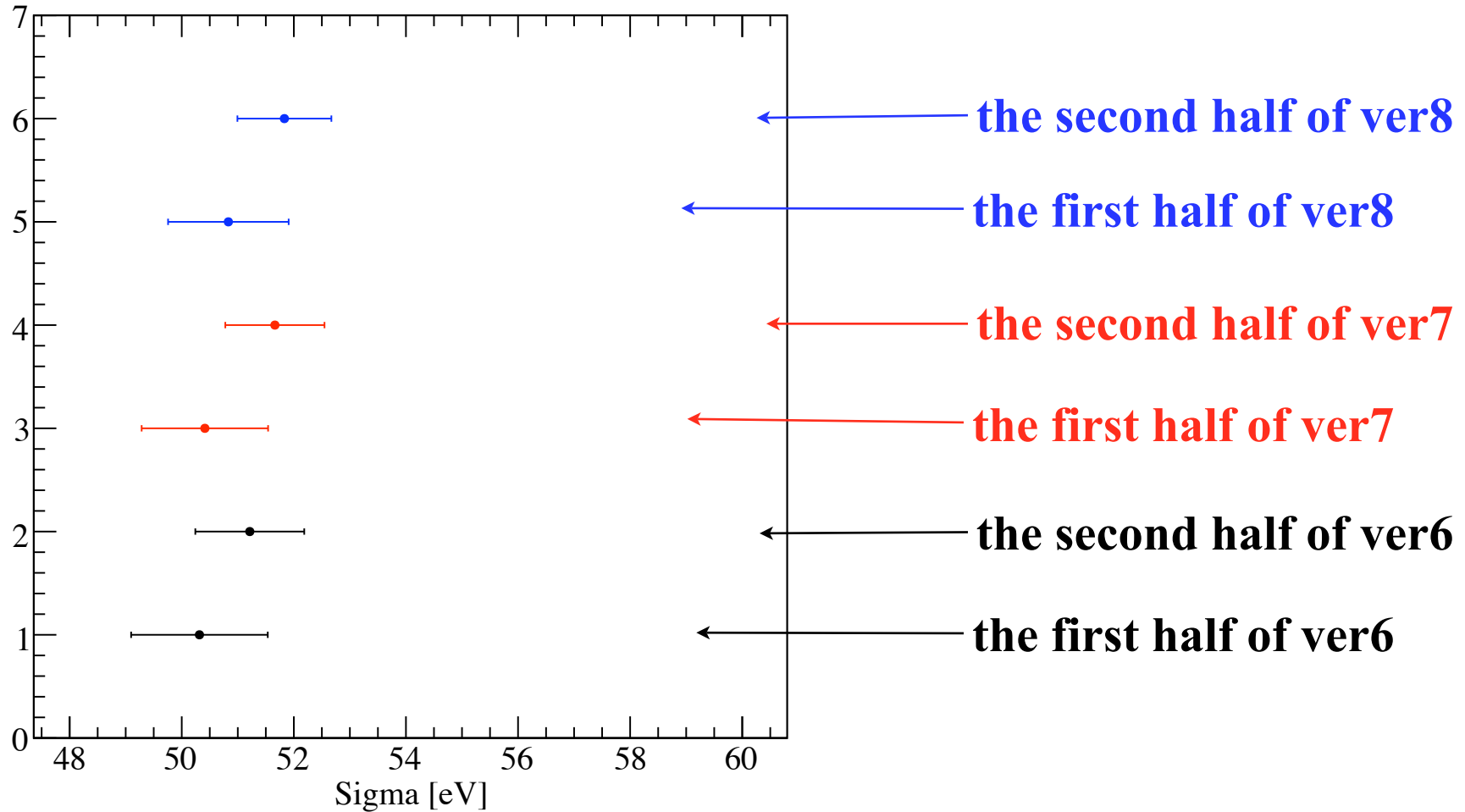
TiKa I Sigma cycle I self trig.

sigma TiKa1 self trig cycle1



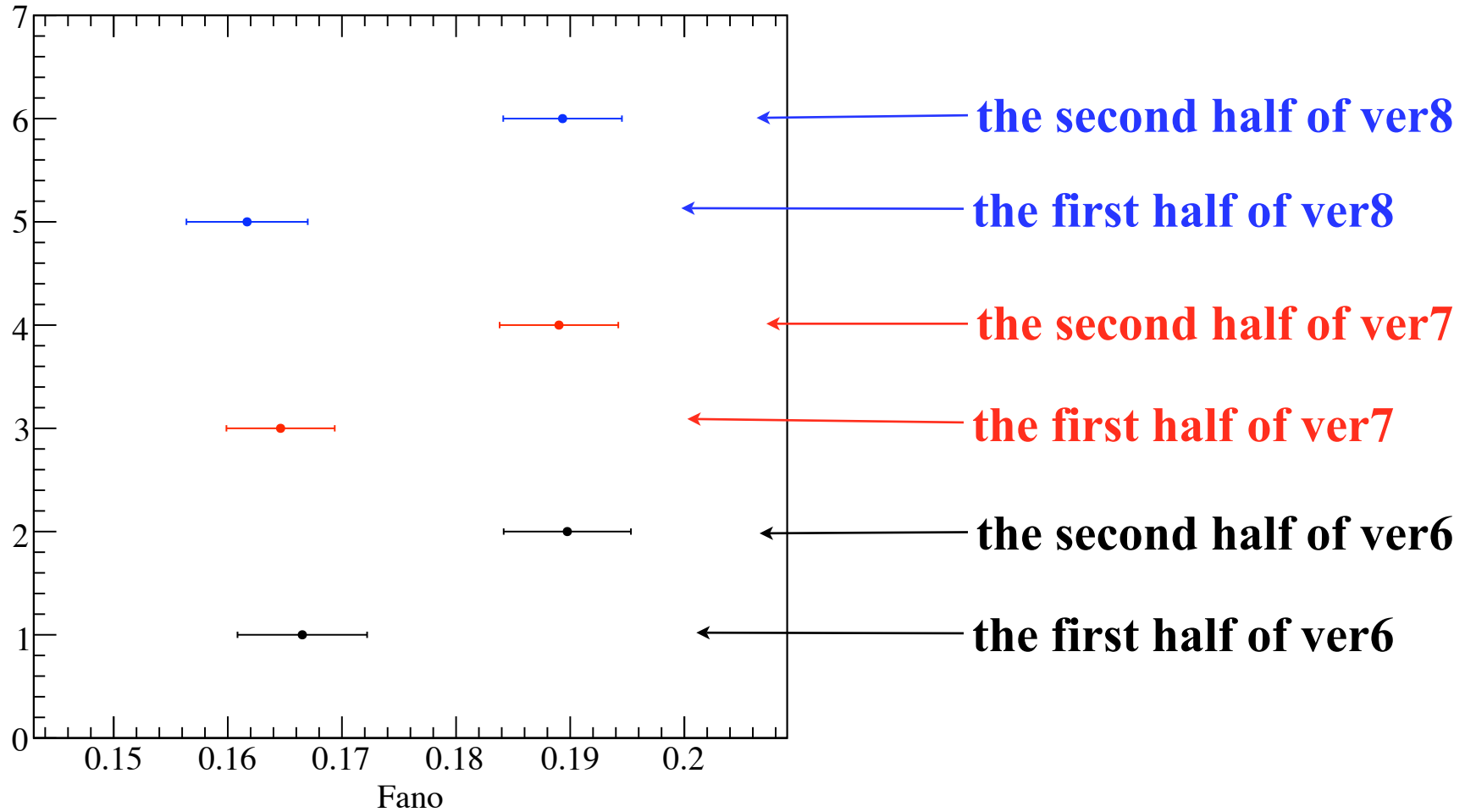
TiKa I Sigma cycle2 self trig.

sigma TiKa1 self trig cycle2



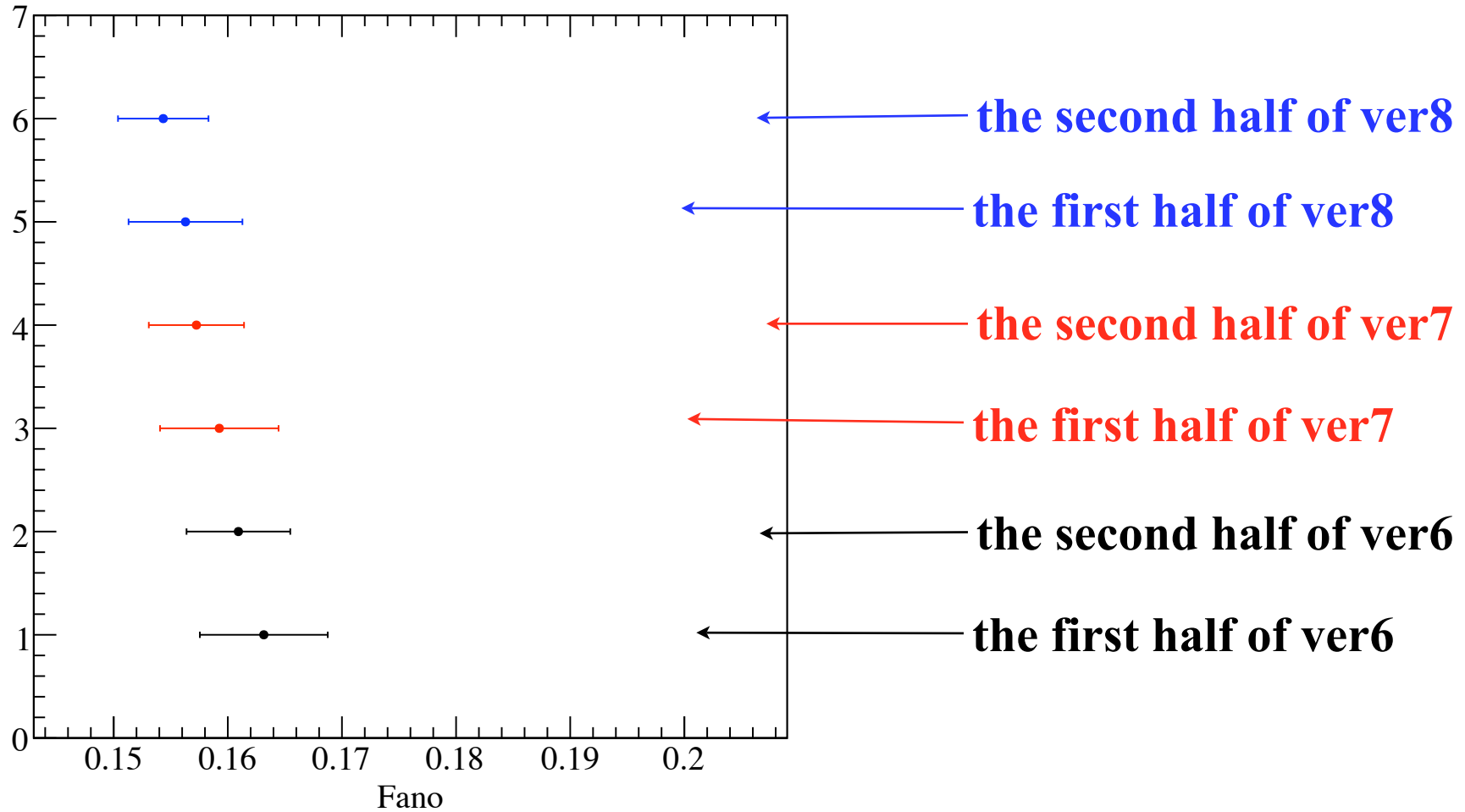
Fano factor cycle I self trig.

Fano self trig cycle1



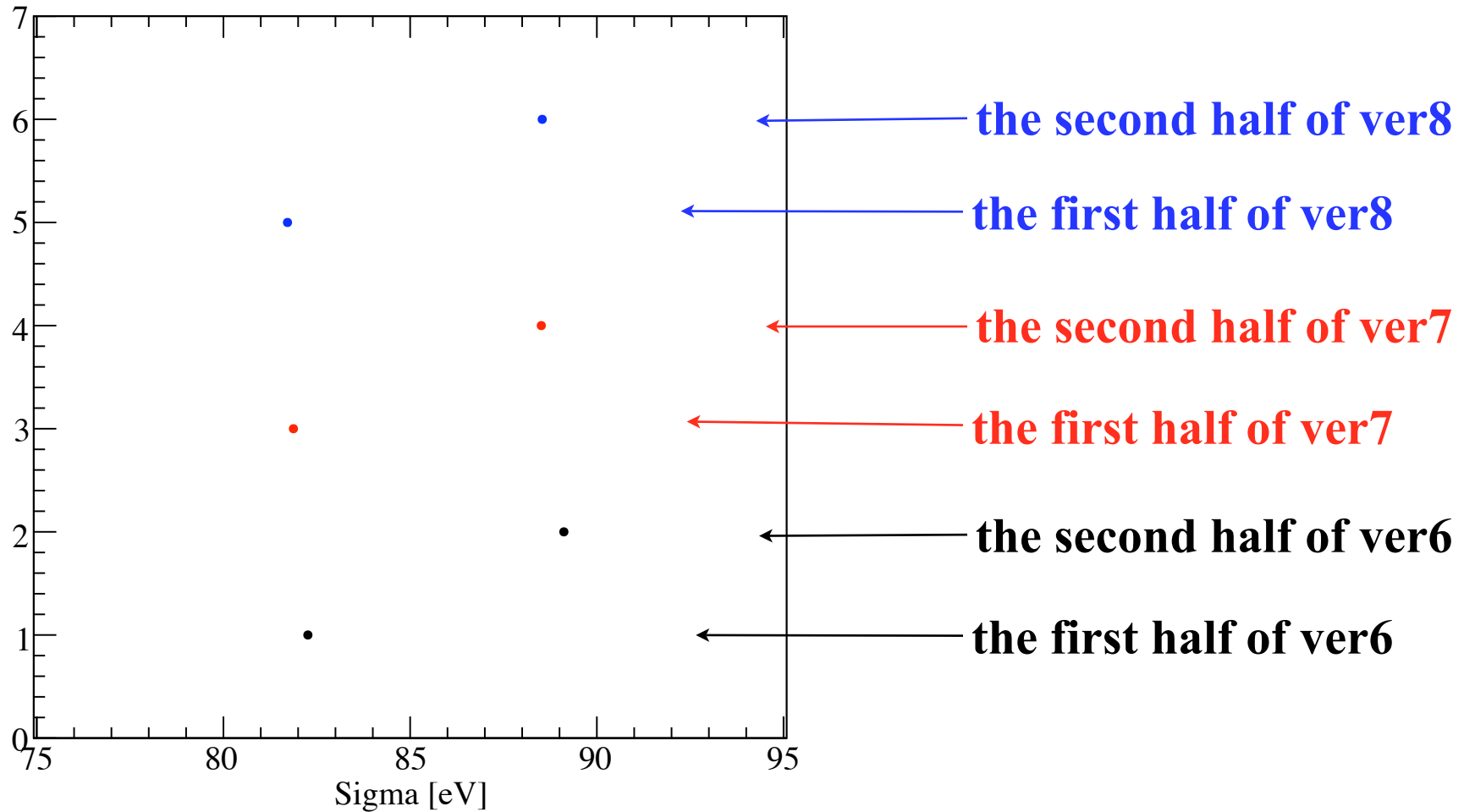
Fano factor cycle2 self trig.

Fano self trig cycle2



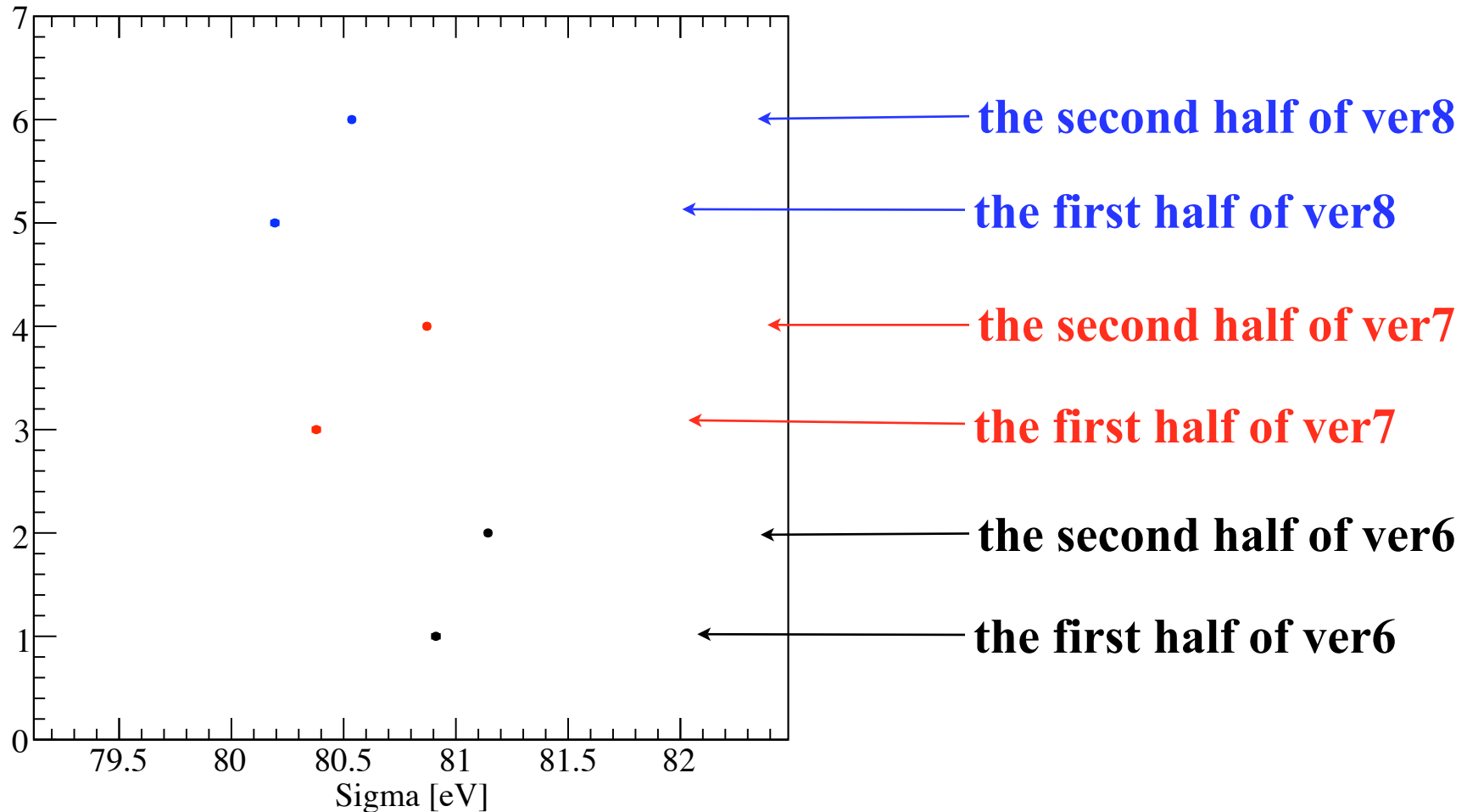
KHeXLa Sigma cycle I e549 trig.

sigma KHeXLa e549 trig cycle1



KHeXLa Sigma cycle I e549 trig.

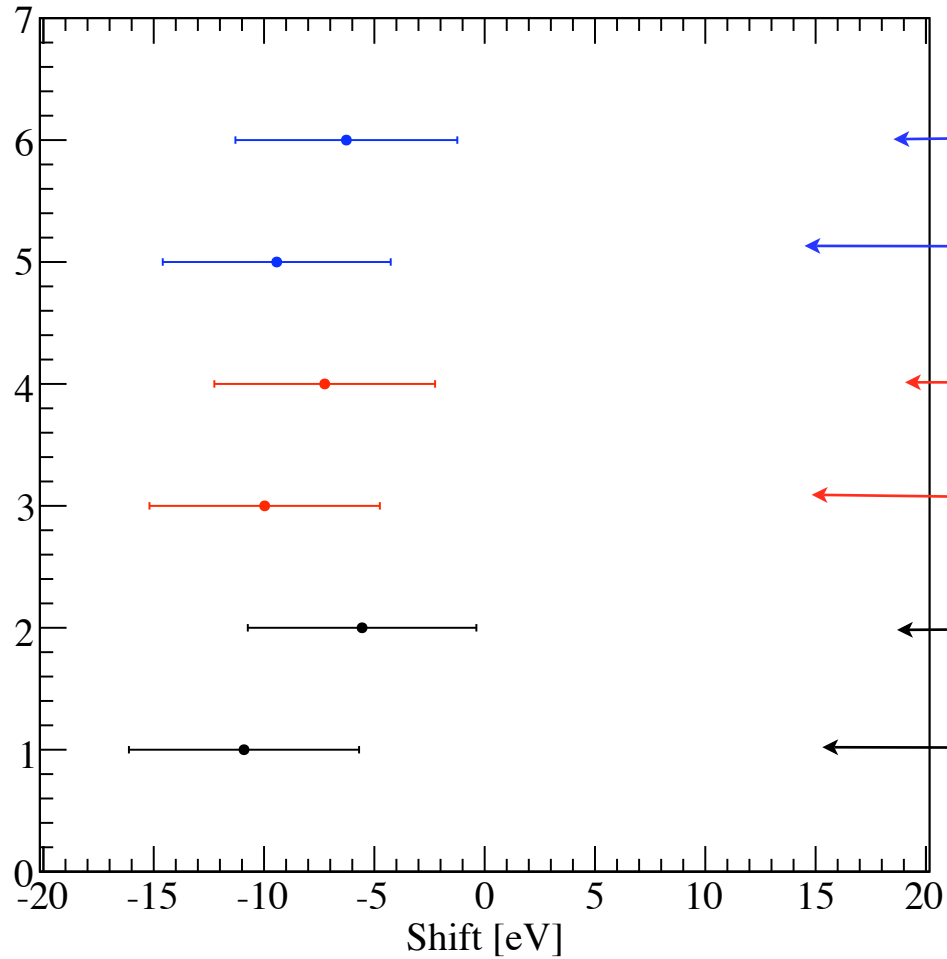
sigma KHeXLa e549 trig cycle2



the width of KHeXLa is slightly improved
in the both sides of all versions

KHeXLa Shift cycle I e549 trig.

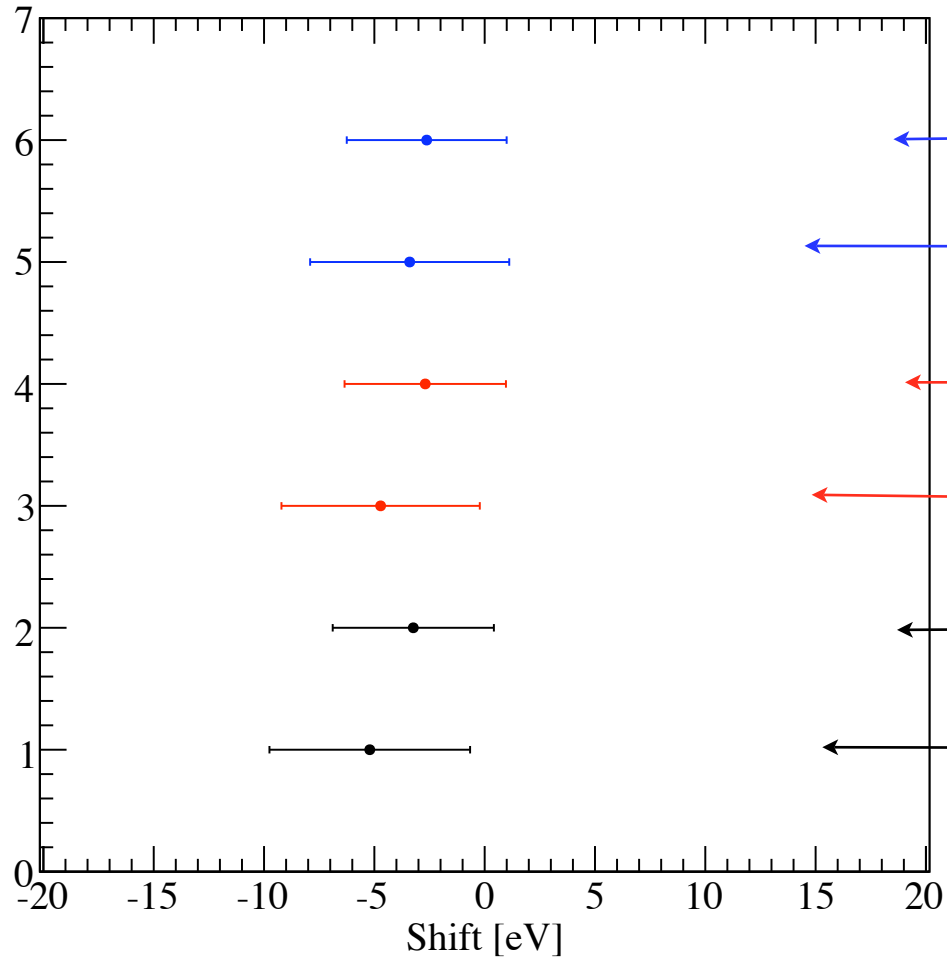
Shift KHeXLa e549 trig cycle1



- ← the second half of ver8
- ← the first half of ver8
- ← the second half of ver7
- ← the first half of ver7
- ← the second half of ver6
- ← the first half of ver6

KHeXLa Shift cycle2 e549 trig.

Shift KHeXLa e549 trig cycle2



← the second half of ver8

← the first half of ver8

← the second half of ver7

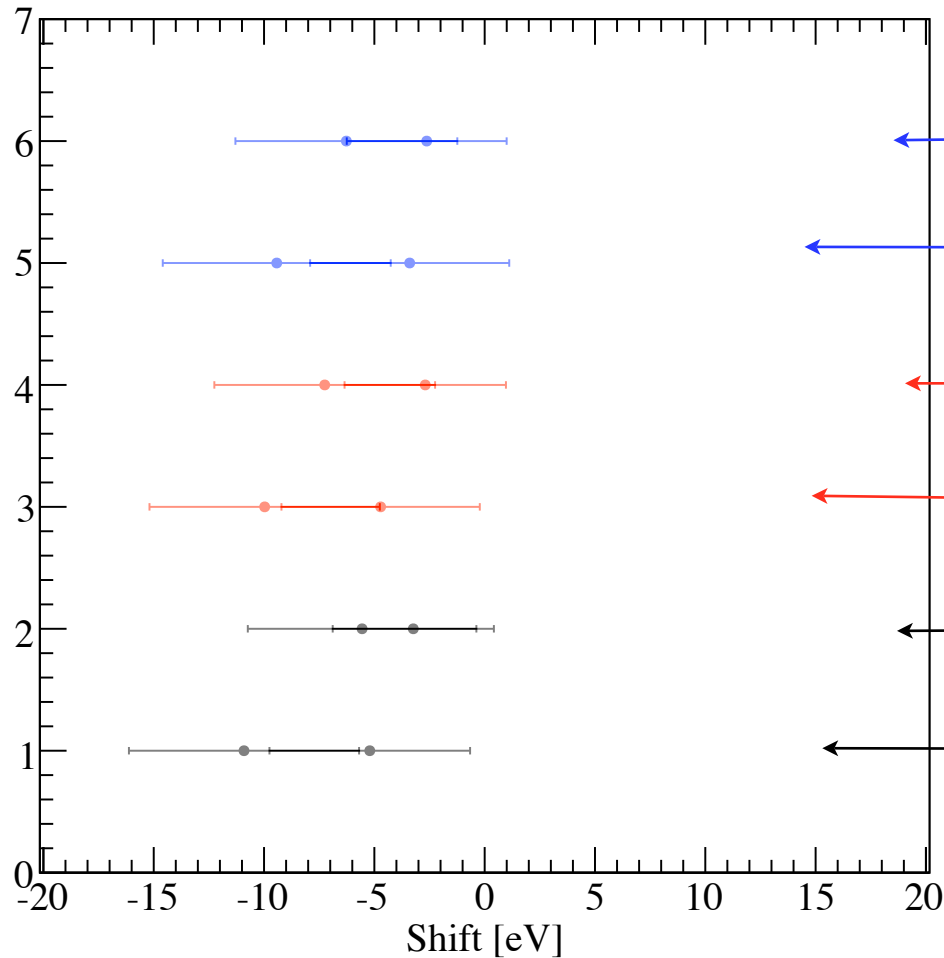
← the first half of ver7

← the second half of ver6

← the first half of ver6

Superimposition of cycle1 and cycle2

Shift KHeXLa e549 trig cycle2



the second half of ver8

the first half of ver8

the second half of ver7

the first half of ver7

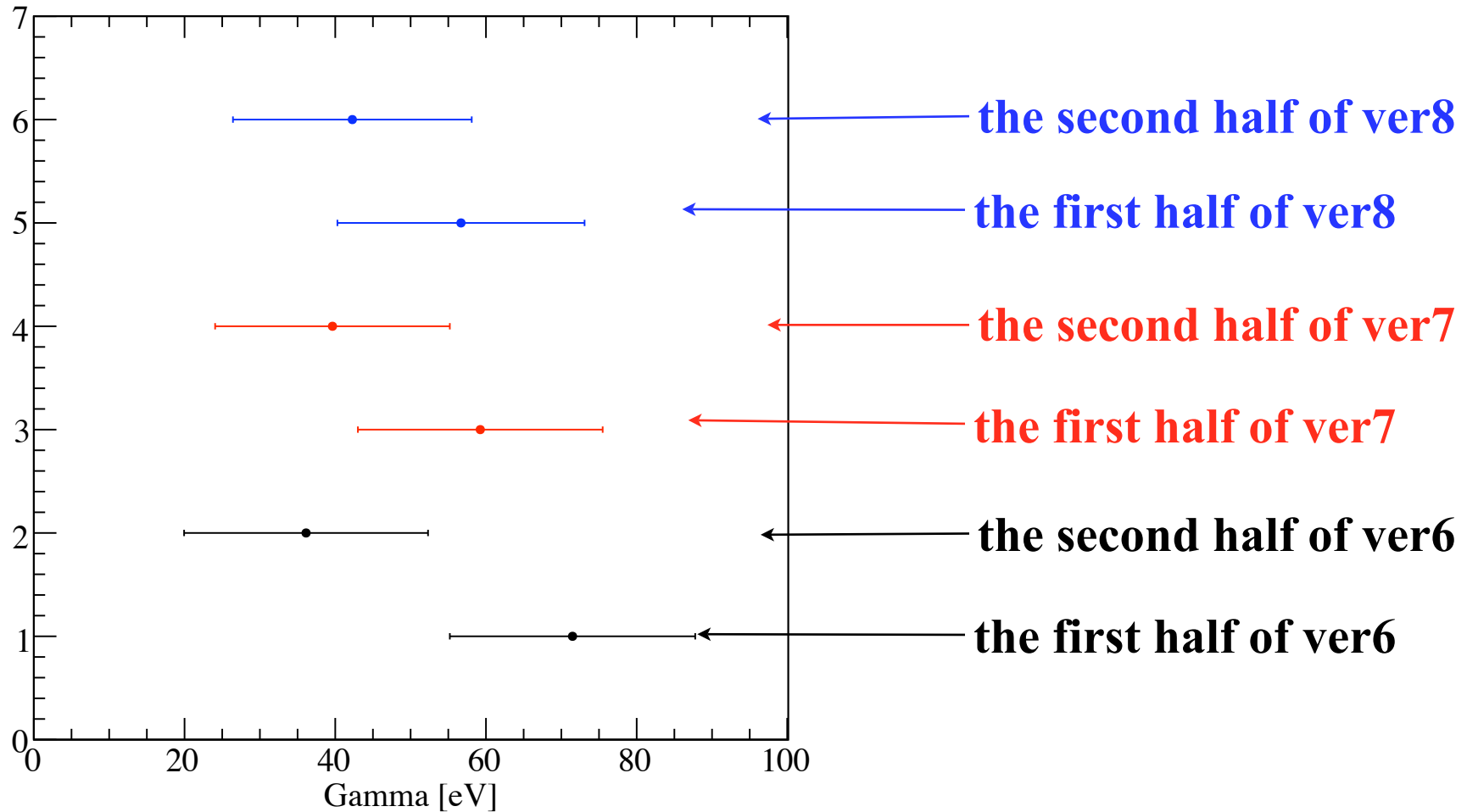
the second half of ver6

the first half of ver6

consistent within 1σ error.

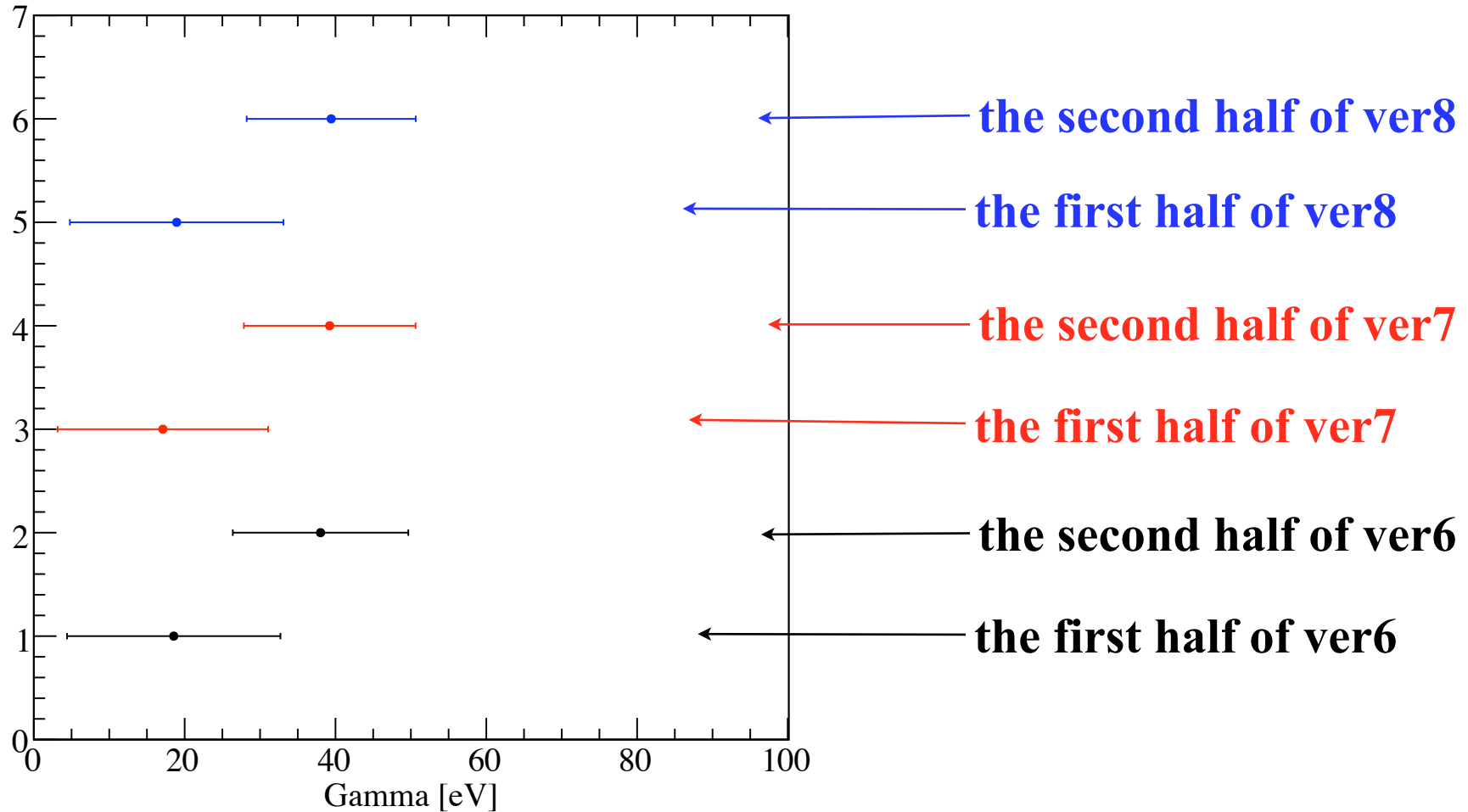
KHeXLa gamma cycle I e549 trig.

Gamma KHeXLa e549 trig cycle1



KHeXLa gamma cycle2 e549 trig.

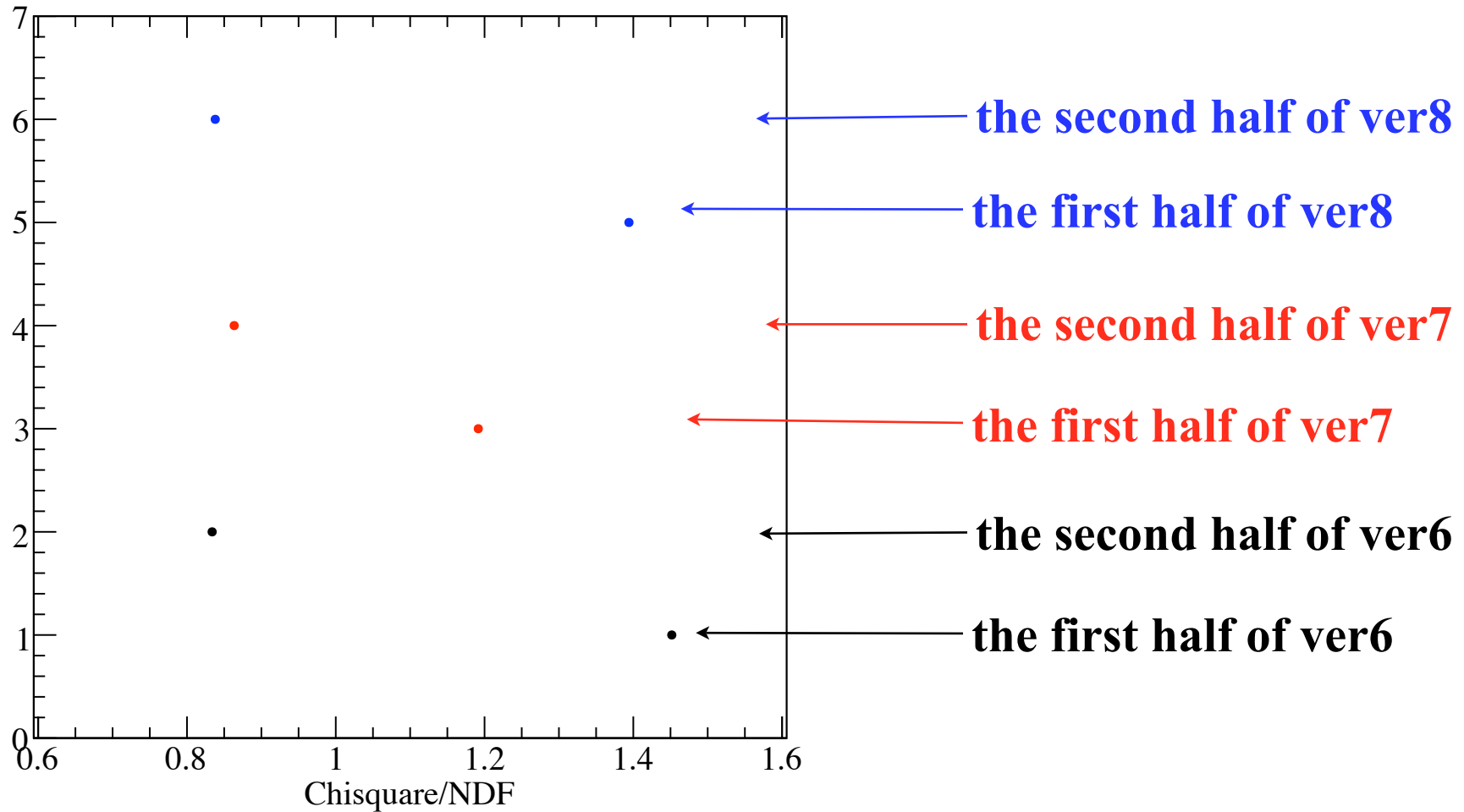
Gamma KHeXLa e549 trig cycle2



the first half of cycle2 is different from that of cycle 1
(the second half has good consistency).

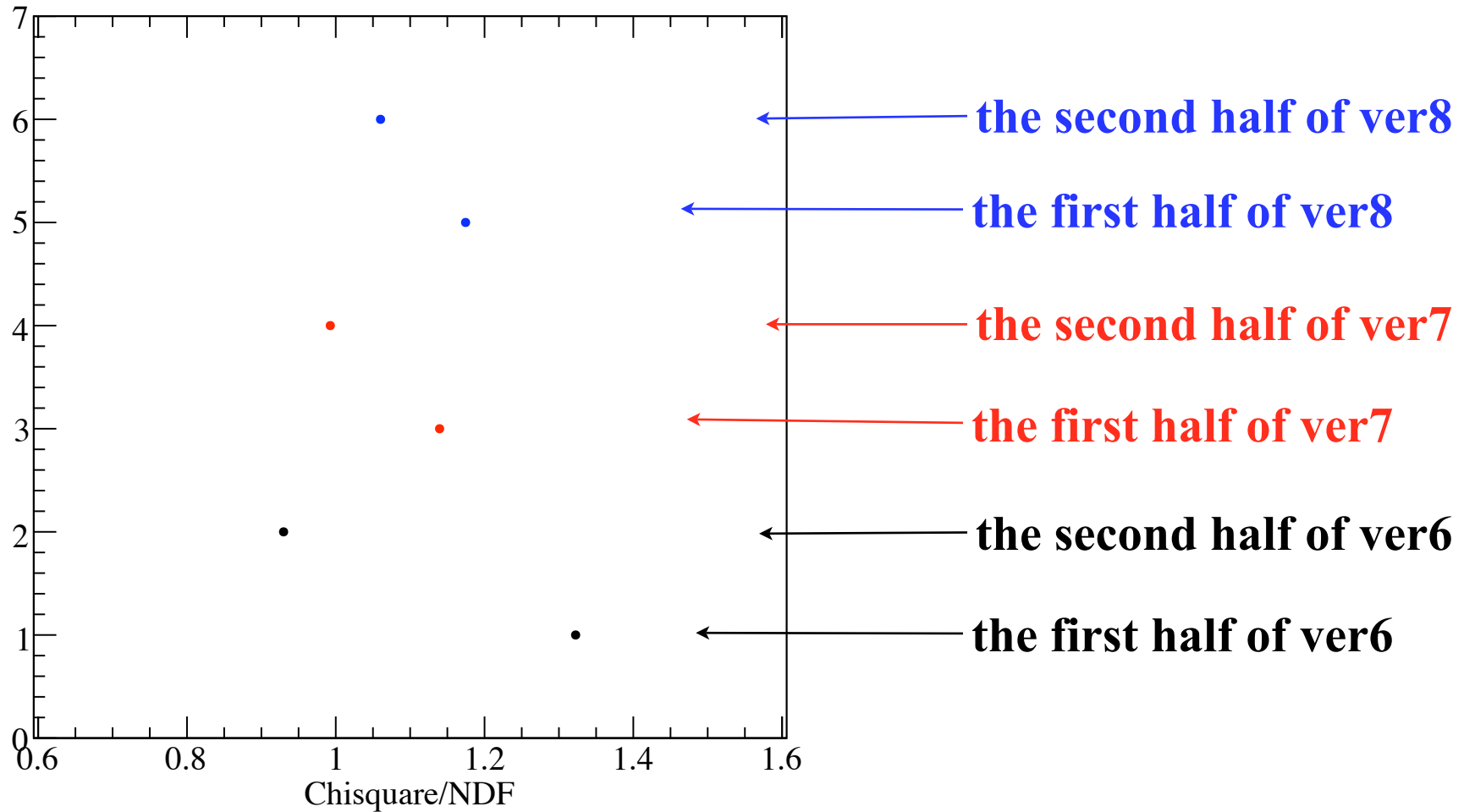
χ^2/NDF cycle I e549 trig.

Chisquare/NDF KHeXLa e549 trig cycle1



χ^2/NDF cycle2 e549 trig.

Chisquare/NDF KHeXLa e549 trig cycle2



the chisquare / NDF of cycle2 is better than that of cycle1.

NEXT

Start FADC event selections

1. simple peak search
2. peak search by fitting (pol4)
3. criteria of event selections
(pile-up, oscillation, etc...)