

28 Sep 2020

BG subtracted ded vs par: Au1, Sum WF, Unweighted

5eV resonance

Det1:
ded avg = $1.33\text{e-}13 \pm 4.79\text{e-}16$
par avg = $1.3\text{e-}13 \pm 1.05\text{e-}15$
Statistical uncertainty = 0.805 %
Difference = 2.07 %

Det2:
ded avg = $1.24\text{e-}13 \pm 4.62\text{e-}16$
par avg = $1.22\text{e-}13 \pm 1.01\text{e-}15$
Statistical uncertainty = 0.831 %
Difference = 1.69 %

Det3:
ded avg = $1.29\text{e-}13 \pm 4.72\text{e-}16$
par avg = $1.24\text{e-}13 \pm 1.02\text{e-}15$
Statistical uncertainty = 0.824 %
Difference = 4.15 %

Det4:
ded avg = $1.06\text{e-}13 \pm 4.28\text{e-}16$
par avg = $1.03\text{e-}13 \pm 9.33\text{e-}16$
Statistical uncertainty = 0.904 %
Difference = 2.94 %

Sum:
ded avg = $4.92\text{e-}13 \pm 9.22\text{e-}16$
par avg = $4.79\text{e-}13 \pm 2.01\text{e-}15$
Statistical uncertainty = 0.419 %
Difference = 2.7 %

78eV resonance

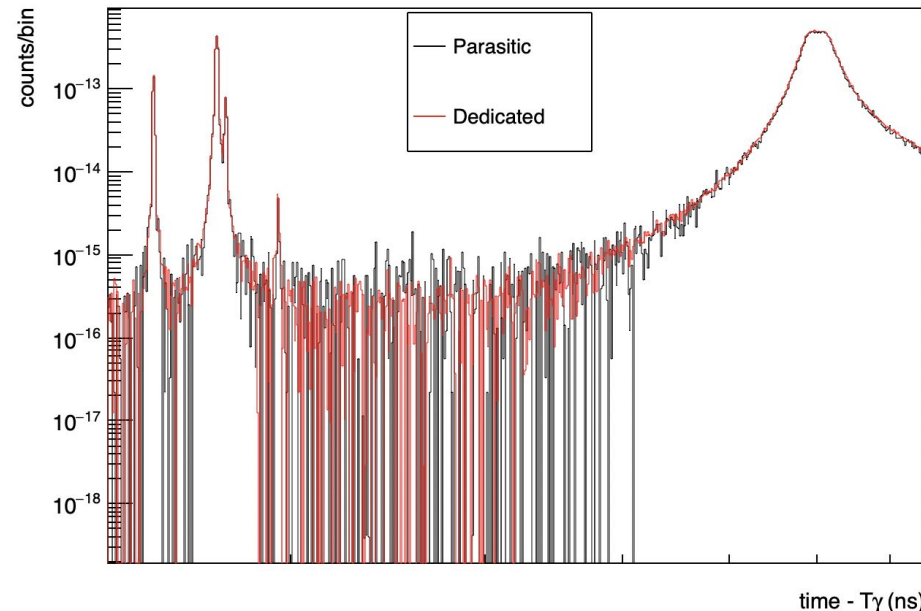
Det1:
ded avg = $8.97\text{e-}15 \pm 1.73\text{e-}16$
par avg = $8.86\text{e-}15 \pm 3.8\text{e-}16$
Statistical uncertainty = 4.29 %
Difference = 1.27 %

Det2:
ded avg = $8.25\text{e-}15 \pm 1.66\text{e-}16$
par avg = $8.44\text{e-}15 \pm 3.73\text{e-}16$
Statistical uncertainty = 4.42 %
Difference = -2.21 %

Det3:
ded avg = $8.51\text{e-}15 \pm 1.69\text{e-}16$
par avg = $8.03\text{e-}15 \pm 3.63\text{e-}16$
Statistical uncertainty = 4.51 %
Difference = 6 %

Det4:
ded avg = $7.22\text{e-}15 \pm 1.55\text{e-}16$
par avg = $7.43\text{e-}15 \pm 3.5\text{e-}16$
Statistical uncertainty = 4.7 %
Difference = -2.82 %

Sum:
ded avg = $3.3\text{e-}14 \pm 3.31\text{e-}16$
par avg = $3.28\text{e-}14 \pm 7.33\text{e-}16$
Statistical uncertainty = 2.24 %
Difference = 0.606 %



BG subtracted ded vs par: Au1, Sum WF, Weighted

5eV resonance

Det1:
ded avg = $5.03\text{e-}12 \pm 2.83\text{e-}14$
par avg = $4.85\text{e-}12 \pm 6.10\text{e-}14$
Statistical uncertainty = 1.26 %
Difference = 3.61 %

Det2:
ded avg = $4.71\text{e-}12 \pm 2.71\text{e-}14$
par avg = $4.61\text{e-}12 \pm 5.94\text{e-}14$
Statistical uncertainty = 1.29 %
Difference = 2.22 %

Det3:
ded avg = $5.23\text{e-}12 \pm 2.98\text{e-}14$
par avg = $5.05\text{e-}12 \pm 6.48\text{e-}14$
Statistical uncertainty = 1.28 %
Difference = 3.54 %

Det4:
ded avg = $4.09\text{e-}12 \pm 2.56\text{e-}14$
par avg = $3.92\text{e-}12 \pm 5.53\text{e-}14$
Statistical uncertainty = 1.41 %
Difference = 4.53 %

Sum:
ded avg = $1.91\text{e-}11 \pm 5.55\text{e-}14$
par avg = $1.84\text{e-}11 \pm 1.2\text{e-}13$
Statistical uncertainty = 0.654 %
Difference = 3.44 %

78eV resonance

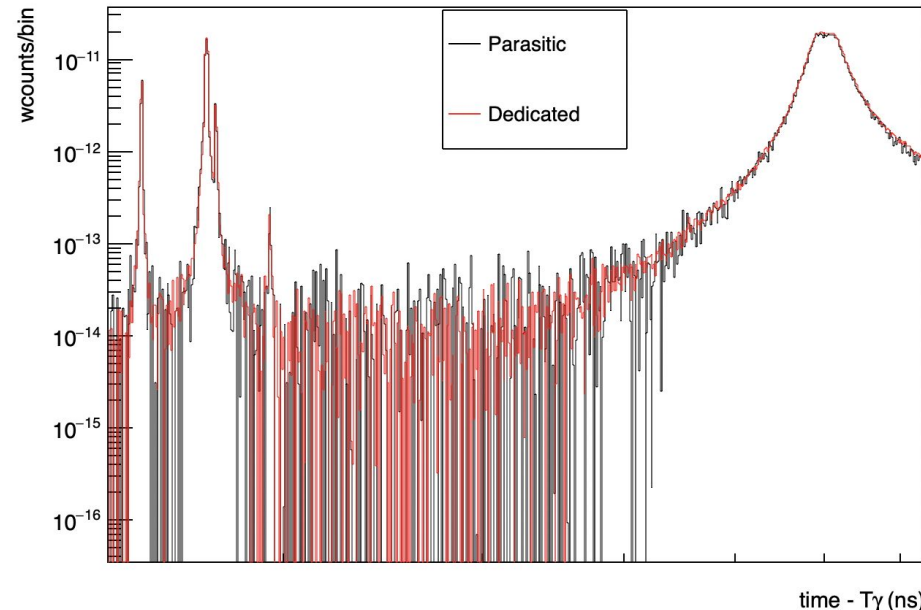
Det1:
ded avg = $3.36\text{e-}13 \pm 9.78\text{e-}15$
par avg = $3.22\text{e-}13 \pm 2.13\text{e-}14$
Statistical uncertainty = 6.62 %
Difference = 4.45 %

Det2:
ded avg = $3.19\text{e-}13 \pm 9.73\text{e-}15$
par avg = $3.50\text{e-}13 \pm 2.32\text{e-}14$
Statistical uncertainty = 6.64 %
Difference = -8.8 %

Det3:
ded avg = $3.53\text{e-}13 \pm 1.07\text{e-}14$
par avg = $3.18\text{e-}13 \pm 2.26\text{e-}14$
Statistical uncertainty = 7.12 %
Difference = 11 %

Det4:
ded avg = $2.74\text{e-}13 \pm 9\text{e-}15$
par avg = $2.82\text{e-}13 \pm 1.98\text{e-}14$
Statistical uncertainty = 7.02 %
Difference = -2.92 %

Sum:
ded avg = $1.28\text{e-}12 \pm 1.97\text{e-}14$
par avg = $1.27\text{e-}12 \pm 4.36\text{e-}14$
Statistical uncertainty = 3.43 %
Difference = 0.81 %



BG subtracted ded vs par: Au2, Sum WF, Weighted

5eV resonance

Det1:

ded avg = $4.84\text{e-}12 \pm 2.25\text{e-}14$
par avg = $4.73\text{e-}12 \pm 3.79\text{e-}14$
Statistical uncertainty = 0.801 %
Difference = 2.33 %

Det2:

ded avg = $4.65\text{e-}12 \pm 2.21\text{e-}14$
par avg = $4.58\text{e-}12 \pm 3.73\text{e-}14$
Statistical uncertainty = 0.813 %
Difference = 1.52 %

Det3:

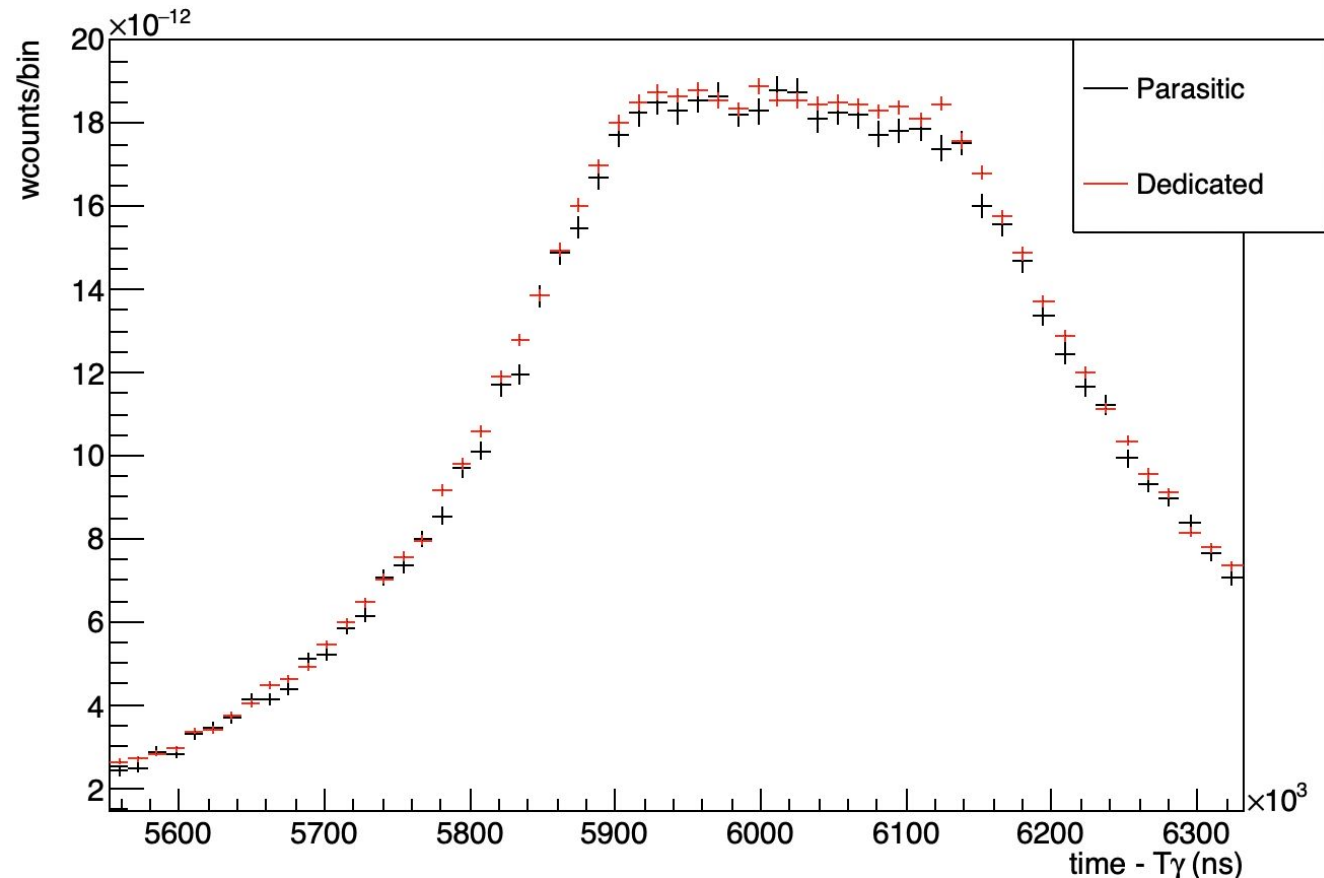
ded avg = $5.06\text{e-}12 \pm 2.38\text{e-}14$
par avg = $4.99\text{e-}12 \pm 4.06\text{e-}14$
Statistical uncertainty = 0.812 %
Difference = 1.3 %

Det4:

ded avg = $3.94\text{e-}12 \pm 2.04\text{e-}14$
par avg = $3.9\text{e-}12 \pm 3.47\text{e-}14$
Statistical uncertainty = 0.889 %
Difference = 1.1 %

Sum:

ded avg = $1.85\text{e-}11 \pm 4.44\text{e-}14$
par avg = $1.82\text{e-}11 \pm 7.53\text{e-}14$
Statistical uncertainty = 0.414 %
Difference = 1.58 %



BG subtracted ded vs par: Au1, Sum WF, Weighted

Run107715, 5eV resonance

Det3:

ded avg = $5.2\text{e-}12 \pm 5.38\text{e-}14$
par avg = $5.21\text{e-}12 \pm 1.47\text{e-}13$
Statistical uncertainty = 2.81 %
Difference = -0.166 %

Det4:

ded avg = $4.08\text{e-}12 \pm 4.64\text{e-}14$
par avg = $4.07\text{e-}12 \pm 1.26\text{e-}13$
Statistical uncertainty = 3.09 %
Difference = 0.173 %

Sum:

ded avg = $1.9\text{e-}11 \pm 1\text{e-}13$
par avg = $1.89\text{e-}11 \pm 2.71\text{e-}13$
Statistical uncertainty = 1.43 %
Difference = 0.301 %

Run107716, 5eV resonance

Det3:

ded avg = $5.2\text{e-}12 \pm 5.11\text{e-}14$
par avg = $4.92\text{e-}12 \pm 1.07\text{e-}13$
Statistical uncertainty = 2.17 %
Difference = 5.61 %

Det4:

ded avg = $4.17\text{e-}12 \pm 4.47\text{e-}14$
par avg = $3.89\text{e-}12 \pm 9.29\text{e-}14$
Statistical uncertainty = 2.39 %
Difference = 7.17 %

Sum:

ded avg = $1.92\text{e-}11 \pm 9.59\text{e-}14$
par avg = $1.81\text{e-}11 \pm 2\text{e-}13$
Statistical uncertainty = 1.1 %
Difference = 5.73 %

Run107727, 5eV resonance

Det3:

ded avg = $5.26\text{e-}12 \pm 5\text{e-}14$
par avg = $5.06\text{e-}12 \pm 9.79\text{e-}14$
Statistical uncertainty = 1.94 %
Difference = 4.04 %

Det4:

ded avg = $4.03\text{e-}12 \pm 4.23\text{e-}14$
par avg = $3.86\text{e-}12 \pm 8.18\text{e-}14$
Statistical uncertainty = 2.12 %
Difference = 4.48 %

Sum:

ded avg = $1.9\text{e-}11 \pm 9.24\text{e-}14$
par avg = $1.84\text{e-}11 \pm 1.81\text{e-}13$
Statistical uncertainty = 0.985 %
Difference = 3.28 %