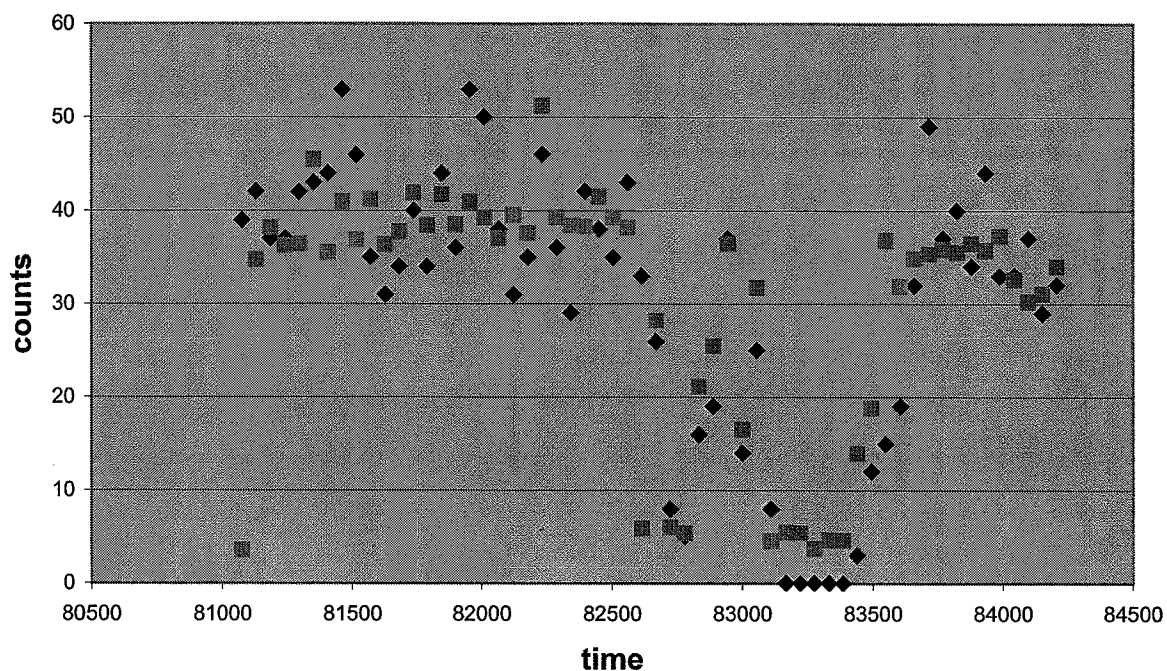


The time intervals (in seconds) for different exposure times. The number of scans = 5

| 2 sec | 3 sec | 4 sec | 5 sec | 6 sec | 7 sec | 8 sec | 9 sec | 10 sec |
|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 49 | 59 | 49 | 54 | 59 | 64 | 69 | 74 | 79 |

For the minutes

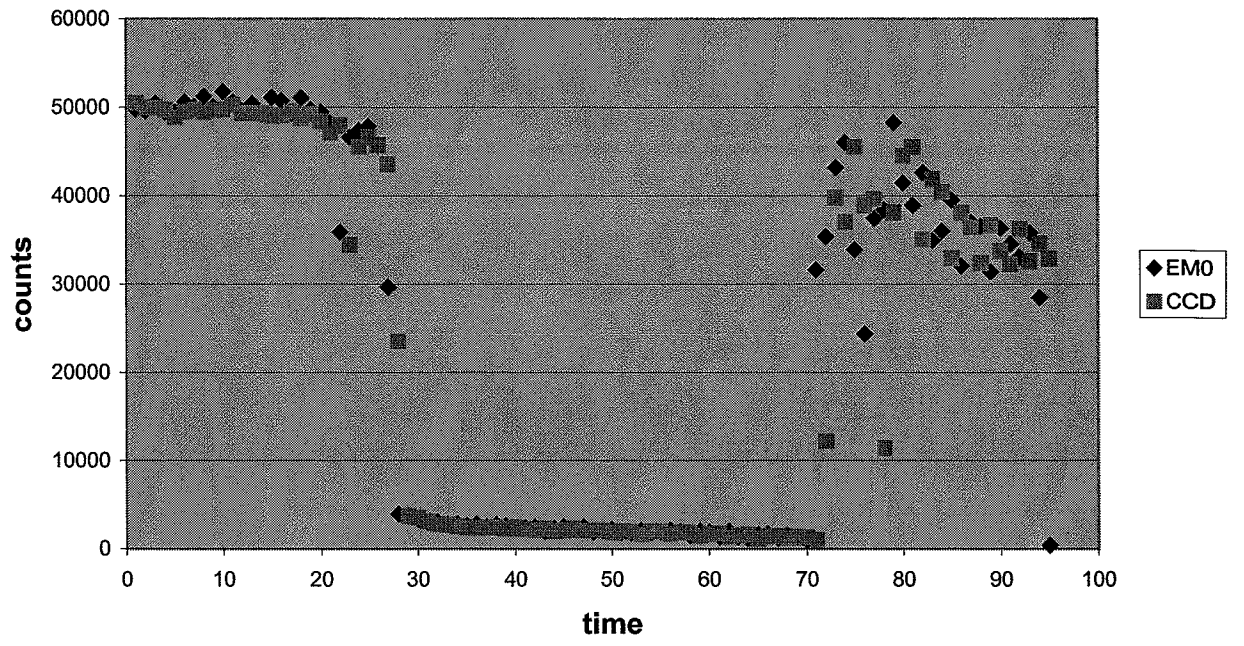
EM0 and CCD camera, run 12897



The first six runs analyzed, looking at CCD camera and EM0 data. Note that the multiplication factor takes into account the EM0 prescaler and the exposure time.

| Run # | Element | Beam current(epA) FC4 | Target pressure (T) | EM0 prescaler | Exposure time (s) | $\frac{\text{CCD}}{\text{EM0}}$ | $\frac{\text{FC4}}{\text{CCD}}$ |
|-------|------------------|--------------------------|---------------------|---------------|-------------------|---------------------------------|---------------------------------|
| 12702 | ^{26}Al | 150 | 7.93 | 16 | 10 | 1 | 141 |
| 12725 | ^{26}Al | 70 | 7.93 | 16 | 10 | 2.27 | 117 |
| 12861 | ^{21}Ne | 2430 | 4.5 | 1 | 2 | 0.84 | 27 |
| 12896 | ^{21}Na | 380 | 4.52 | 1 | 5 | 1.06 | 213 |
| 12897 | ^{21}Na | 310 | 4.53 | 1 | 5 | 1.47 | 189 |
| 12899 | ^{21}Na | 374 | 4.53 | 1 | 10 | 2.25 | 201 |

EM0 and CCD for run 12089



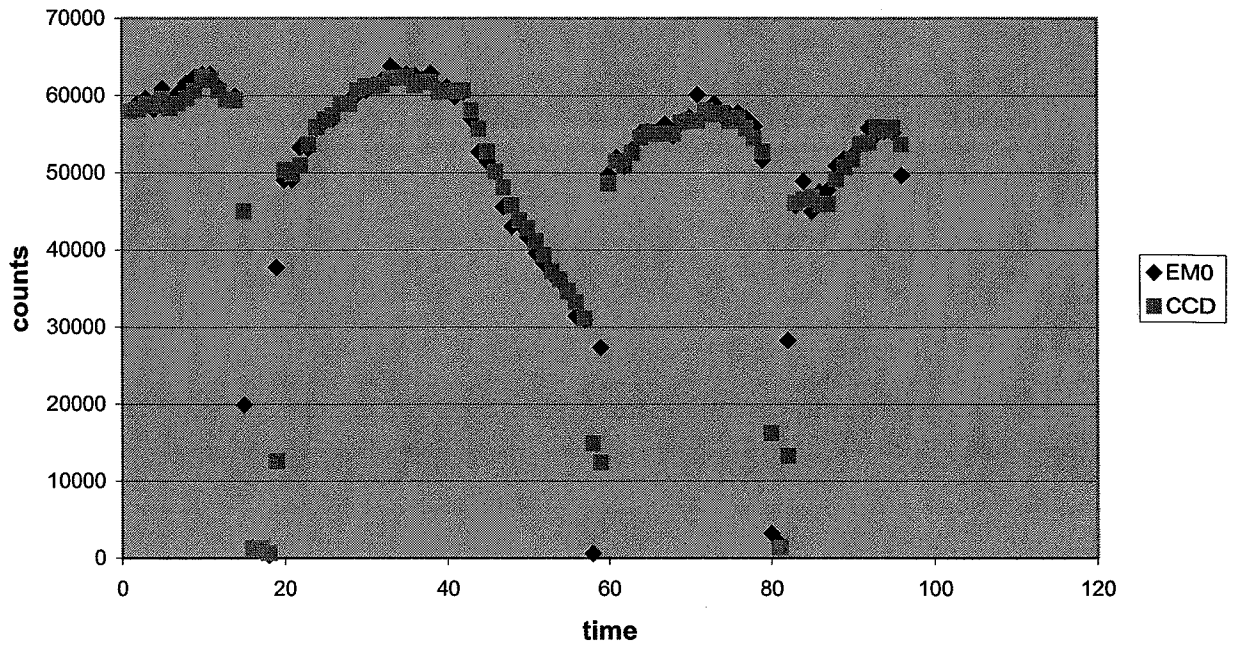
Looking at the CCD camera and EM0 data for the $^{12}\text{C}(\text{a}, \text{g})$ runs. The multiplication factor does not take the CCD integration time into account.

| Run # | Current FC4 (enA) | Energy (MeV/u) | Pressure (Torr) | Time interval(secs) | CCD/EM0 |
|-------|-------------------------|-------------------|--------------------|------------------------|---------|
| 12038 | 45 | 1.76 | 3.03-2.97 | 10 | 74.0 |
| 12045 | 30 | 1.76 | 3.02-2.99 | 10 | 62.5 |
| 12065 | 60 | 1.81 | 4.05-3.91 | 10 | 32.5 |
| 12066 | 70 | 1.81 | 4.11-4.04 | 10 | 33.4 |
| 12089 | 100 | 1.52 | 3.91-3.39 | 79 | 6.35 |
| 12106 | 105 | 1.63 | 4.16 | 54 | 4.10 |
| 12113 | 80 | 1.69 | 3.94 | 15 | 70.4 |
| 12116 | 165 | 1.45 | 4.03-3.95 | 79 | 20.7 |
| 12117 | 167 | 1.45 | 3.82-3.31 | 79 | 8.9 |

Comparing the CCD camera data to the fcm2 data

| Run # | Energy (MeV/u) | Current FC4 (enA) | Pressure (Torr) | Time interval | Fcm2 | CCD | Norm CCD | $\frac{\text{CCD}}{\text{FC4}}$ | $\frac{\text{Fcm2}}{\text{CCD}}$ |
|-------|-------------------|----------------------|--------------------|------------------|------|-------|-------------|---------------------------------|----------------------------------|
| 12038 | 1.76 | 45 | 3.03-2.97 | 10 | 274 | 1700 | 850 | 18.9 | 0.32 |
| 12045 | 1.76 | 30 | 3.02-2.99 | 10 | 178 | 1000 | 500 | 16.7 | 0.36 |
| 12065 | 1.81 | 60 | 4.05-3.91 | 10 | 412 | 2666 | 1333 | 22.2 | 0.31 |
| 12066 | 1.81 | 70 | 4.11-4.04 | 10 | 0.5 | 3550 | 1775 | 25.3 | |
| 12089 | 1.52 | 100 | 3.91-3.39 | 79 | 800 | 12700 | 254 | 2.5 | 3.15 |
| 12106 | 1.63 | 105 | 4.16 | 54 | 1000 | 7378 | 295 | 2.8 | 3.39 |
| 12113 | 1.69 | 80 | 3.94 | 15 | 650 | 9500 | | | |
| 12116 | 1.45 | 165 | 4.03-3.95 | 79 | 1183 | 15800 | 316 | 1.9 | 3.74 |
| 12117 | 1.45 | 167 | 3.82-3.31 | 79 | 1100 | 14500 | 290 | 1.7 | 3.80 |

EM0 and CCD for run 12117



fcm2 and ccd for run 12117

