

RADIATION BUDGET FORM

PAGE NUM/REV 1/-

Fill in blanks or (preferably) provide in tab-separated or Excel/WKS format.

Hall (circle one): A B C **D**

experiment num.: E12-18-003 drawing num. supplied: _____

name of liaison: Luc Bouriez Pentchev

| run hours (100% effect) | days* | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 0.0 |
|-------------------------------|--------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| setup number | | | | | | | | | | | | | | | | | | | |
| beam energy | GeV | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
| beam current | mA(CW) | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 |
| polarization | % | 38 | 38 | 38 | 38 | 38 | 38 | 38 | 38 | 38 | 38 | 38 | 38 | 38 | 38 | 38 | 38 | 38 | 38 |
| exp/target ID number | | | | | | | | | | | | | | | | | | | |
| exp1 target material (1) | | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C |
| exp1 target thickness (1) | mg/cm2 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 |
| exp1 target material (2) | | | | | | | | | | | | | | | | | | | |
| exp1 target thickness (2) | mg/cm2 | | | | | | | | | | | | | | | | | | |
| exp1 target window material | | | | | | | | | | | | | | | | | | | |
| exp1 target window thkn. | mg/cm2 | | | | | | | | | | | | | | | | | | |
| radiator material | | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C |
| radiator thickness | mg/cm2 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 |
| dist. radiator to pivot* | m | | | | | | | | | | | | | | | | | | |
| exit window material* | | | | | | | | | | | | | | | | | | | |
| exit window thickness* | mg/cm2 | | | | | | | | | | | | | | | | | | |
| critical dumpline radius* | cm | | | | | | | | | | | | | | | | | | |
| crit. d plane dist. to pivot* | m | | | | | | | | | | | | | | | | | | |
| dumpline material* | | | | | | | | | | | | | | | | | | | |
| dumpline length* | m | | | | | | | | | | | | | | | | | | |

*ONLY PROVIDED IF NONSTANDARD SETUP.

OTHER MATERIALS IF USED

| FYI | D | C | H | Cu | Ti | Be gas | Fe | Al | Be | O | Al |
|----------|-------|-------|------|-------|------|--------|----------|------|-------|------|------|
| material | | | | | | | | | | | |
| Xo | g/cm2 | 126.2 | 43.4 | 63.1 | 12.9 | 16.2 | 90.7 | 13.9 | 6.3 | 65.8 | 34.7 |
| density | g/cm3 | 0.162 | 2.3 | 0.071 | 8.93 | 4.50 | 1.78E-04 | 7.87 | 19.30 | 1.85 | 2.42 |

date form issued: _____

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*Day = 24 hours of beam on target. Include fractional days, if appropriate.