April 26, 1973

Memo to: Krimigis, Moynihan, Gunther   From TPA

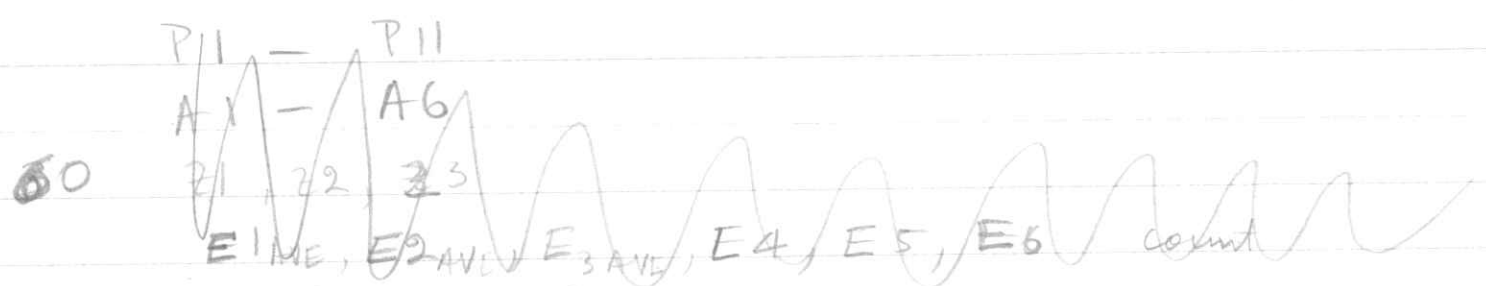Re: List of time-averaged quantities to be printed.

1.   Proton count rates, count rate uncertainties, fluxes
     and flux uncertainties-- (COUNTS(I),UNCERT(I), I=1,11)
     (FJP(I,J), I=1,11), J=1,2)

2.   Alpha count rates, count rate uncertainties, fluxes and
     flux uncertainties-- (COUNTS(I),UNCERT(I),I=12,15),
     (COUNTS(I),UNCERT(I),I=17,18),((FJA(I,J),I=1,6),J=1,2)

3.   Medium and heavy count rates, count rate uncertainties,
     fluxes and flux uncertainties--- (COUNTS(I),UNCERT(I),
     I=19,20), COUNTS(16), UNCERT(16),((FJZM(I,J),I=1,2),
     J=1,2),(FJZH(J),J=1,2)

4.   Electron count rates, count rate uncertainties, fluxes
     and flux uncertainties--- (COUNTS(I),UNCERT(I), I=21,28),
     ((FJE(I,J),I=1,8), J=1,2)

5.   Proton/alpha flux ratios in terms of energy/nucleon,
     energy/charge, and rigidity and their uncertainties.
     ((RPAEN(I,J),I=1,6), J=1,2), ((RPAEQ(I,J),I=1,6),J=1,2),
     ((RPAER(I,J),I=1,6), J=1,2) Note: J=1 is ratio and
     J=2 is uncertainty

6.   Alpha/medium flux ratios in terms of energy/nucleon
     and rigidity and their uncertainties.
     ((RAMEN(I,J),I=1,2),J=1,2), ((RAMER(I,J),I=1,2),J=1,2)

7.   Medium flux/iron group flux and uncertainty.   EPFACT
     ((RMHEN(J),J=1,2)

8.   Sectored average rates for P1, A1, Z1, P8, A6, E1, E2A, E4
     and their uncertainties.

     P1   (COUNTS(I),UNCERT(I)), I= 85,92
     A1   "   101,108
     Z1   "   117,124
     P8   "   93,100
     A6   "   109,116
     E1   "   29,36
     E2A   "   37, 44
     E4   "   77,84

9.   Sectored average rates for E3 and its uncertainties.
     E3   (COUNTS(I), UNCERT(I)), I=45, 76

10. Sector by sector proton/alpha flux ratios and uncertainties. (((RPAAD(I,J,K),I=1,8), J=1,2), K=1,2) where I = sector number, J = 1, P1/A1, J = 2 P8/A6, and K = 1 are ratios, K = 2 are uncertainties.

11. Sector by sector Alpha flux over medium flux and uncertainties. ((RAMAD(I,J), I=1,8), J=1,2) where I = sector number and J 1 is rates and J = 2 is uncertainties.

12. North-south Gm tube ratio and uncertainty. GM2AD(I), I=1, ratio, I=2, uncertainty.

13. Angular distribution amplitudes and phasesfor P1, A1, Z1, P8, A6, E4

        Amplitudes Unc.   Phase   Unc.
        P1AD(2,1,1) P1AD(2,1,2) P1AD(2,2,1) P1AD(2,2,2)
        A1AD   "
        Z1AD   "
        P8AD "
        A6AD   "
        E4AD   "

P/1 — P11

A1 — A6

60   Z1, Z2, Z3

E1 ME, E2 AVE, E3 AVE, E4, E5, E6   count

~~900~~

P/α,   ratios   ≤6 pieces of int (18 mic)   } From
46   α,   ratios   8   } integrated
     M Fe   ratios   2   } spectra
     ──
      0

       P/α
32   α/M   32 numbers (16 mic)
       M/O
T38   γ's

Angular Distribution
       sectored average rates for all quantities plus uncertainties
162   E1, E2A, E3, E4, P1, A1, Z1, P8, A6
          144 (including uncertainties) + 18 sector averages
50   { P1/A1 , A1/Z1 , E2B/E2C , P8/A6   count rate ratios of sectors }

       Amplitudes & phases
24   P1, A1, Z1, P8, A6, E4   (24 quantities)

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236

PAGE 1   4 lines   P1 — P10 $\frac{16}{8}$ → 128

2   A1 — A6 Z1 Z2 Z3 P11   4 lines

3   E1 E2A E3 E4 E5 E6 E2B E2C M S   4 lines

{ 3 lines
  P1 S1 —————— S8 P1AVE } P2
  A1 S1 —————— S8 A1AVE }

{ Z1 S1 —————— S8 Z1AVE Z2   3 lines
  E4 S1 —————— S8 E4AVE E4FLUX

{ P8 S1 ————— S8 P8AVE }   3 lines
  A6 S1 ————— S8 A6AVE }

{ E1 S1 ————— S8 E1AVE E1X
  E2A S1 ————— S8 E2AAVE E2AX

{ E3 S1 — S16
  E3 S17 — S32
  ~~E3 S17 — S24~~
  ~~E3 S24 — S32~~