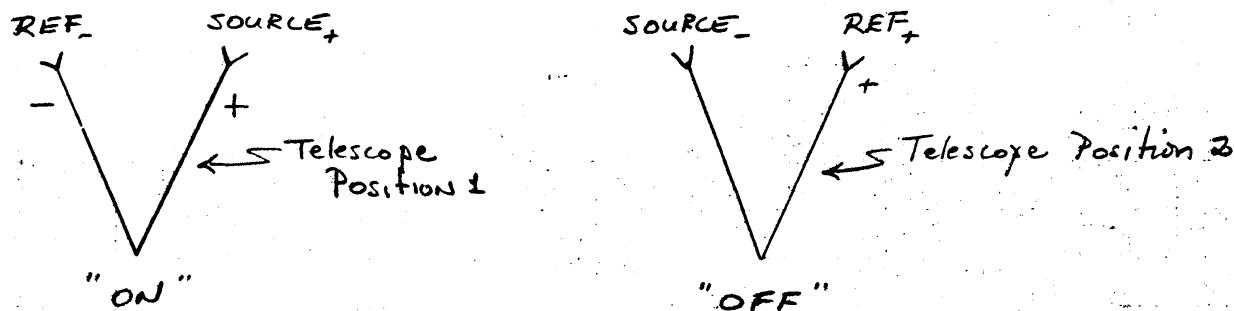
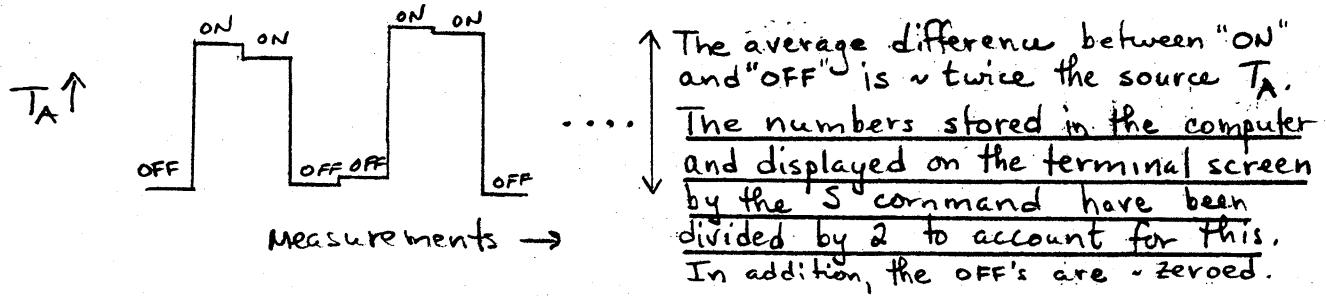


PROCEDURE FOR OBTAINING OFF₊ - OFF₋ FOR

BEAM SWITCHING OBSERVATIONS



Observations are made with the source alternately in the (+) beam and the (-) beam in the pattern OFF-ON-ON-OFF. This cycle of 4 measurements is called "1 Repeat." Sequences of these repeats can be displayed with the scannumber S command in CONDAR and have the form



$$\text{The source antenna temperature } \langle T_A \rangle = \sum_{i=1}^{2n} T_A(i)$$

for n repeats, where

$$\bar{T}_A(i) = [(\text{SOURCE}_+ - \text{REF}_-) - (\text{REF}_+ - \text{SOURCE}_-)] / 2$$

"ON" - "OFF"

By changing the sign in the middle of the above eqn to +, we obtain

$$\text{REF}_+ - \text{REF}_-$$

i.e., the difference between the two sky positions used for reference.

PROCEDURE OFOF (XSCAN)

GET (XSCAN) SLENGTH XSUM = 0

FOR I = 1 TO NPOINTS / 2.

DIFFOFF = TWH (I*2 + 127, 2) + TWH (I*2 + 128, 2).

XSUM = XSUM + DIFFOFF

END

AVXSUM = 2.* XSUM / NPOINTS

PRINT 'AVERAGE OF OFF-OFF = ', AVXSUM

RETURN; FINISH