ISR-RF/WS/mh   August 24, 1971

ISR RUNNING-IN

Pressure decrease after dumping

Using the recording of Run 102 I have made more measurements
of

$$\eta = \frac{\text{excess number of molecules released from the walls}}{\text{number of primary ionising collisions}}$$

according to the method given in my note of 9th August. The
results correspond to the circles on the attached Figure.
The numbers give the sequence of the stacks. The crosses
correspond to Fig. 1 of the 9th August note, taken from
Run 89.

It seems rather clear, now, that η rises when one approaches
the critical current at which the pressure tends to rise
to infinity. I understand from O. Gröbner that he has
obtained a similar result in a different way.

                                        W. SCHNELL

Distribution :
Prof. K. Johnsen
ISR Group Leaders
Running-in Committee
Engineers-in-Charge

η

2

1

0

2   3   4   5   6   7 A I

$+$ Run 8? $I_c = 5,6$ A   jauge 349.1
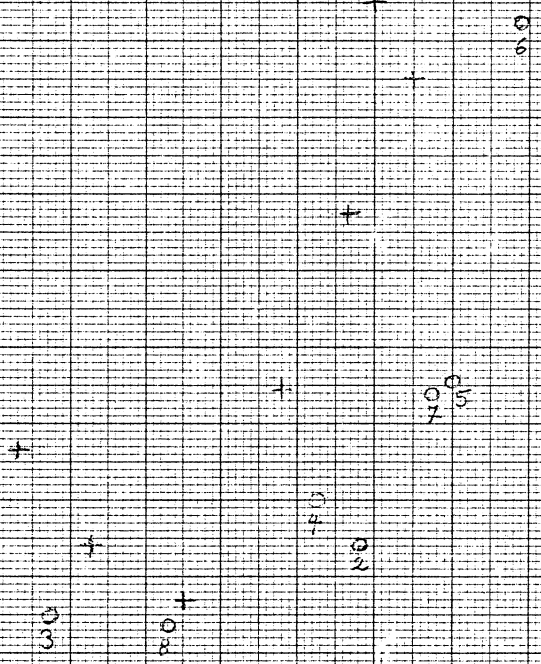
o   Run 1?? $I_c = 6,1$ A   jauge 349.?