evidence for the α -particles coming out in a bound state. The corresponding histogram (Fig. 4) shows evidence of some structure, but the statistics are not sufficient to allow a more definite and detailed conclusion on this point.

Finally the angular distribution of the α -particles with respect to the direction of motion of the ^{13}C recoil was also evaluated in the same system S_b and the result (see Fig. 5) shows the peculiar feature of a strong peaking at 90° . This feature is well established experimentally and persists throughout the whole range of E_b .

We consider that any theoretical

interpretation of this feature would need some ad hoc hypothesis, for which no independent confirmation can be found on the basis of the presently available data.

A clue could be supplied by richer statistics (in both histograms of Fig. 4 and 5), which would allow significant angular analysis in different energy intervals.

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Experimental Study of a Radiofrequency Plasma in a Steady Magnetic Field.

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In Fig. 6 and 9 the units of y -axis should read $n/10^6 \text{ el/cm}^3$.