POINT 5 OF THE AGENDA

Lomer referred to his paper "Progress on Instruments", mentioned the forthcoming instrument meeting in January 1974 and discussed especially page 7, § 10 New Instruments.
In connection with this item

Abragam asked for the price of the six hexapole sections for the spin echo spectrometer (§ 10 f.).

Mössbauer and Lomer gave a figure of 1.6 million francs. For the time being only one section of hexapoles will be constructed.

Bartout asked for explanations of the plans for D-2 B.

Replying to this query

Lomer pointed out that the proposed plan for this instrument would be very difficult to implement from the viewpoint of space allocation and shielding. He suggested that for the time being the idea of accommodating such a spectrometer in the reactor hall should be abandoned and that efforts should be concentrated on the improvement of D-1 A.

Mössbauer then reported on § 10 ml - ultra-cold neutrons -

He first gave a brief summary on the technique of producing ultra-cold neutrons and then quoted some examples of application:

1) Measurement of the electric dipole moment of the neutron:
The present limit for $\mu_e$ is about $10^{-23} - 10^{-25} \text{cm} \cdot \text{e}$ with cold neutrons. A gain of 100 will be possible with ultra-cold neutrons.