

POINT 5 OF THE AGENDA

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- 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
- Abraham 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.
- Bertaut 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 view-point 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 m) - 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 μ_e is about $10^{-23} - 10^{-25}$ cmxe with cold neutrons. A gain of 100 will be possible with ultra-cold neutrons