MAGNETIC MEASUREMENTS ON IRON PLATE NEUTRINO SPARK CHAMBER MAGNET

Some magnetic measurements have been carried out on the iron plate neutrino spark chamber magnet. The general view and some dimensions are given in Fig. 1.

The measurements were carried out partly with search coils and an electronic integrator and partly with a Hall probe. The results are given in Fig. 2 - 7 which are hoped to be self-explanatory together with the following captions.

Figure captions

- Fig. 2 Average flux density in plate No 10 at z=76.5 cm as a function of excitation current.
- Fig. 3 a Horizontal distribution of the stray field and the field between plate 12 and plate 13 at z=62 cm and z=138 cm.
- Fig. 3 b Horizontal distribution of the stray field and the field between the plates at various positions along the beam direction at z=0.
- Fig. 4 Vertical distribution of the field between plate 12 and 13 at y = 25 and 75 cm.
- Fig. 5 Distribution of the field between plates horizontally in the beam direction.
- Fig. 6 Field distribution in the 3 mm slit under plate 12 (see also Fig. 1).
- Fig. 7 Field direction at various positions between plate 12 and 13.

Acknowledgement is due to R. Gerst for assisting in the measurements which were requested by Dr. G. von Dardel and carried out in consultation with B. Langeseth.

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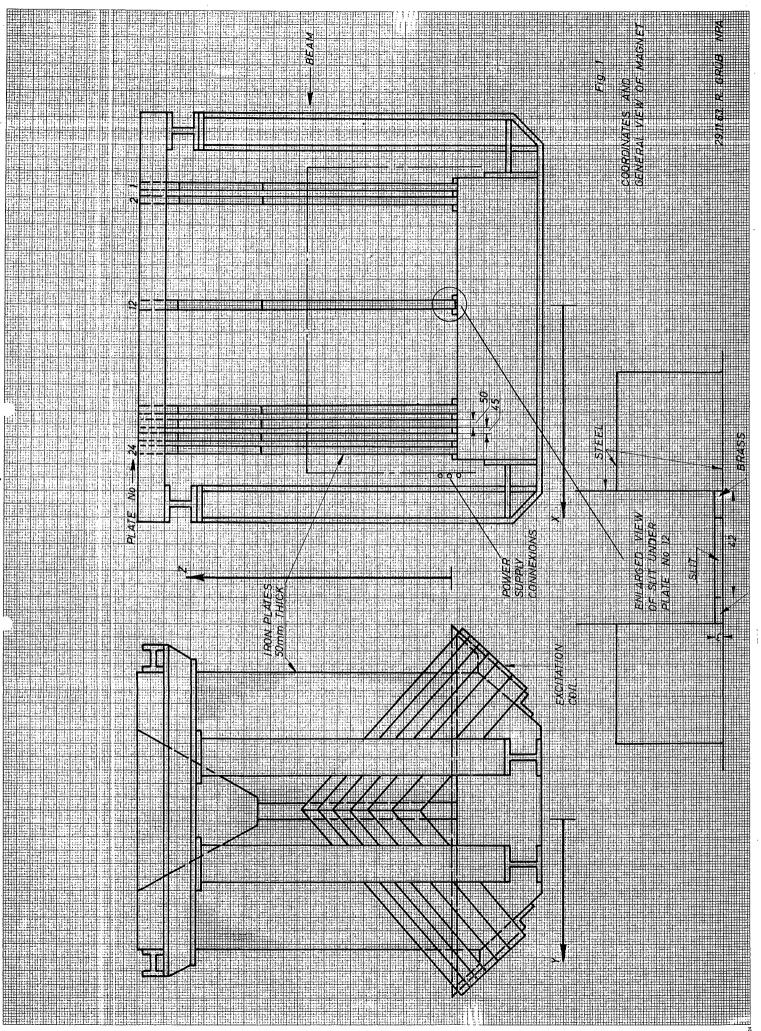
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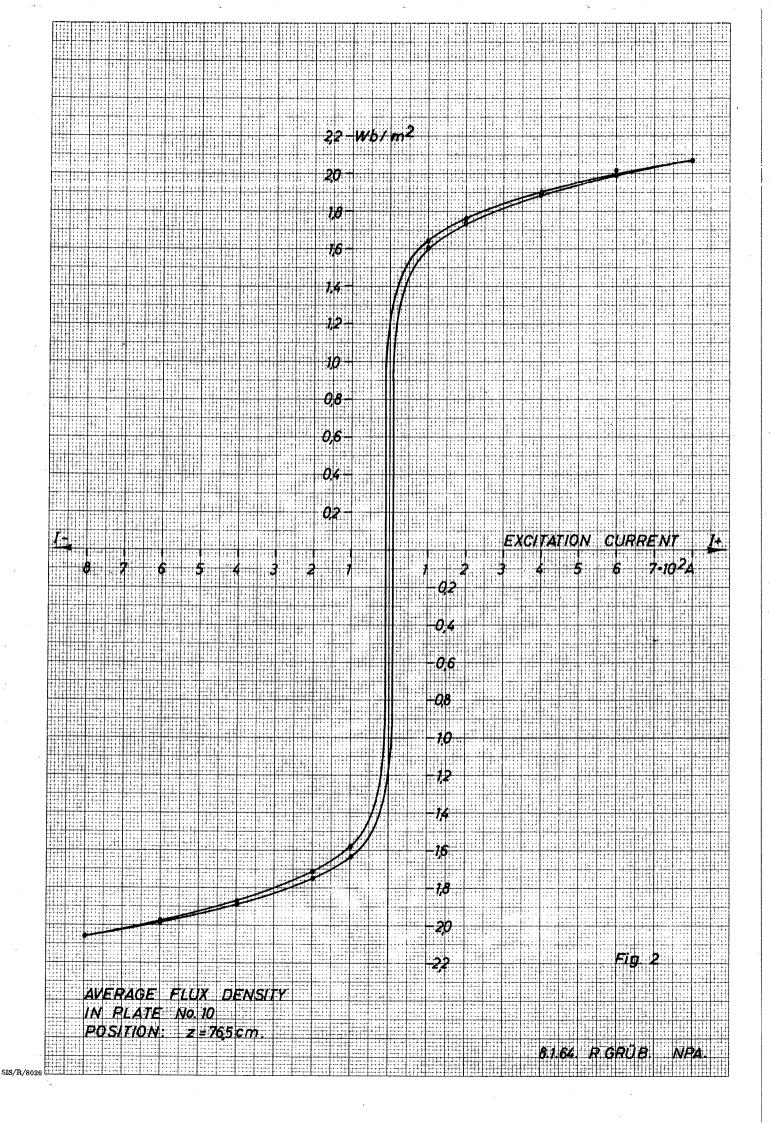
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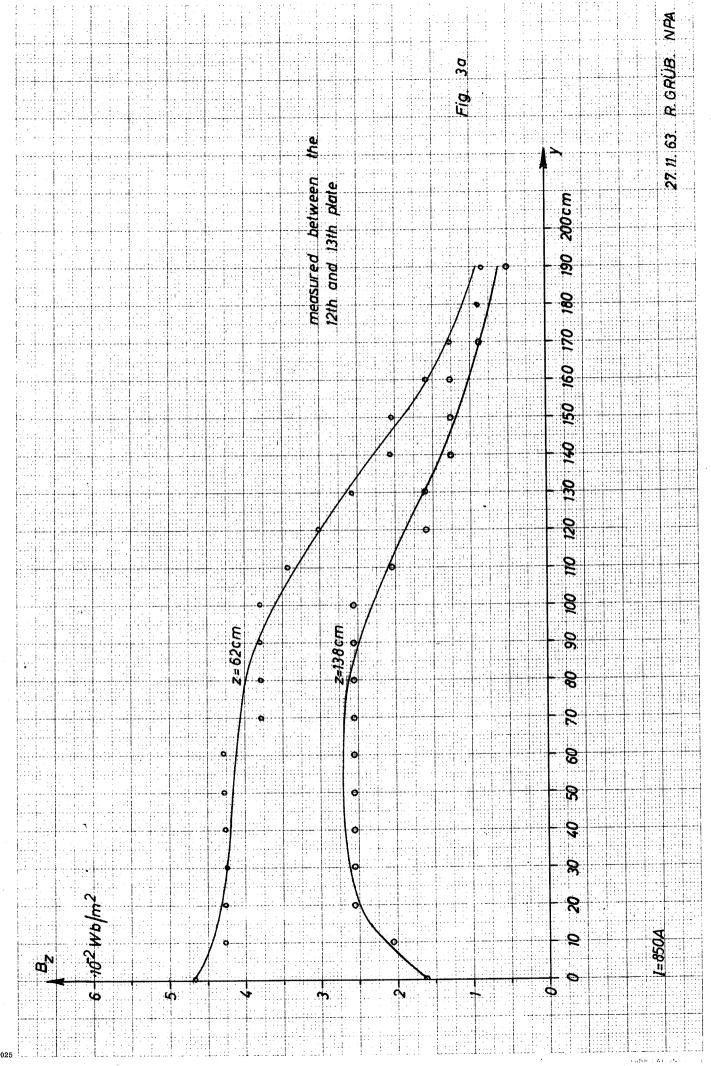
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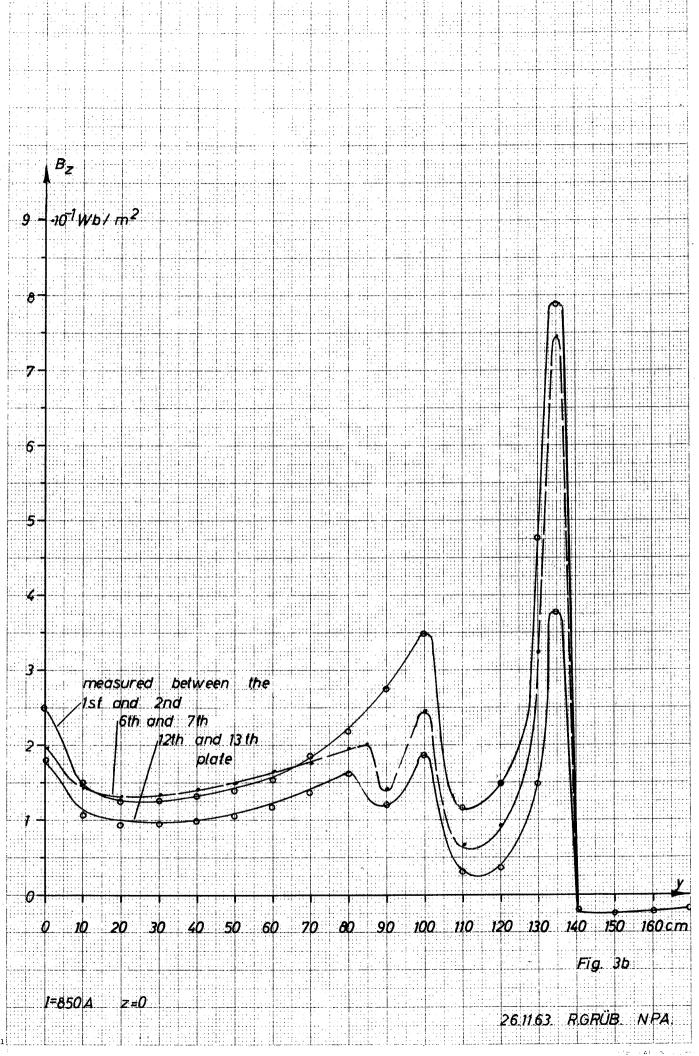
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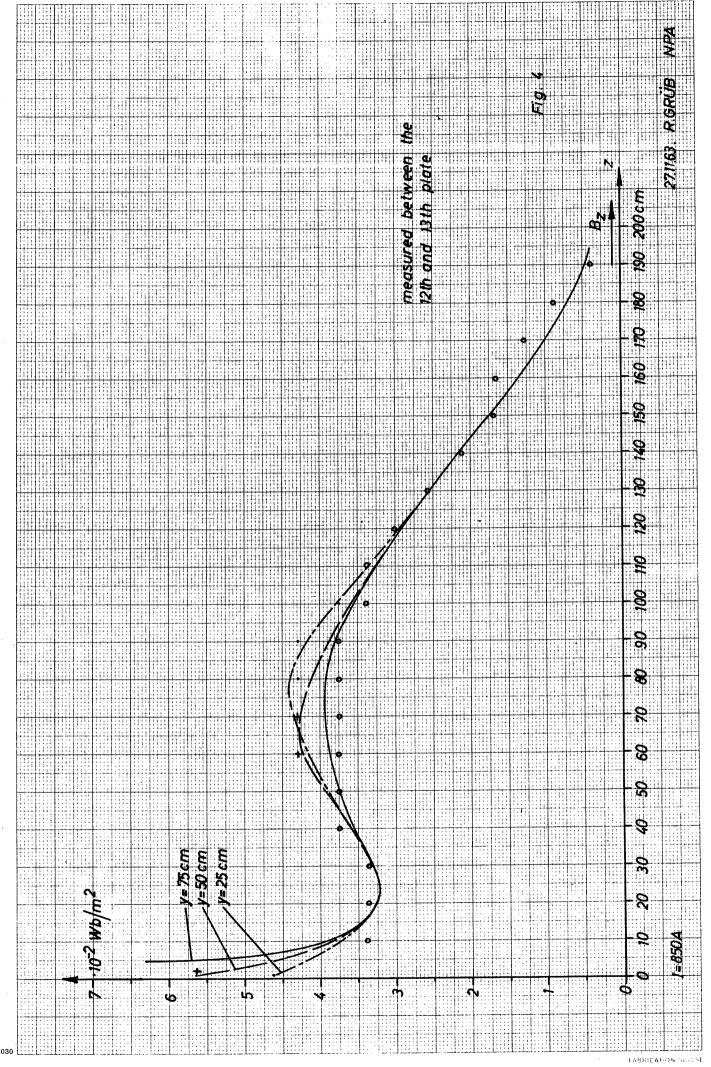




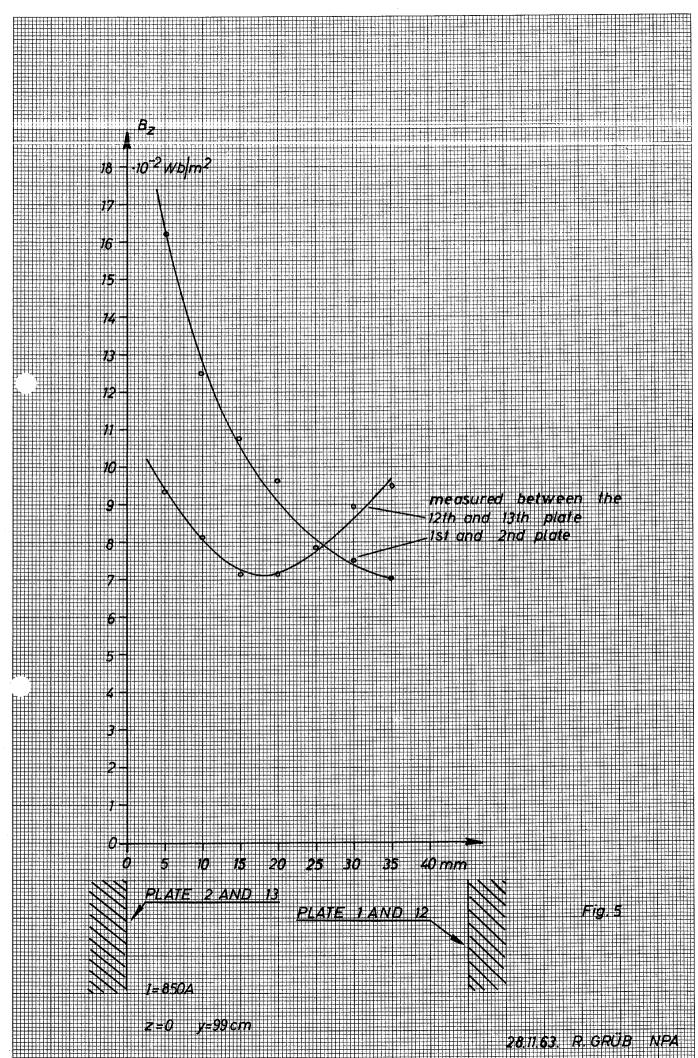


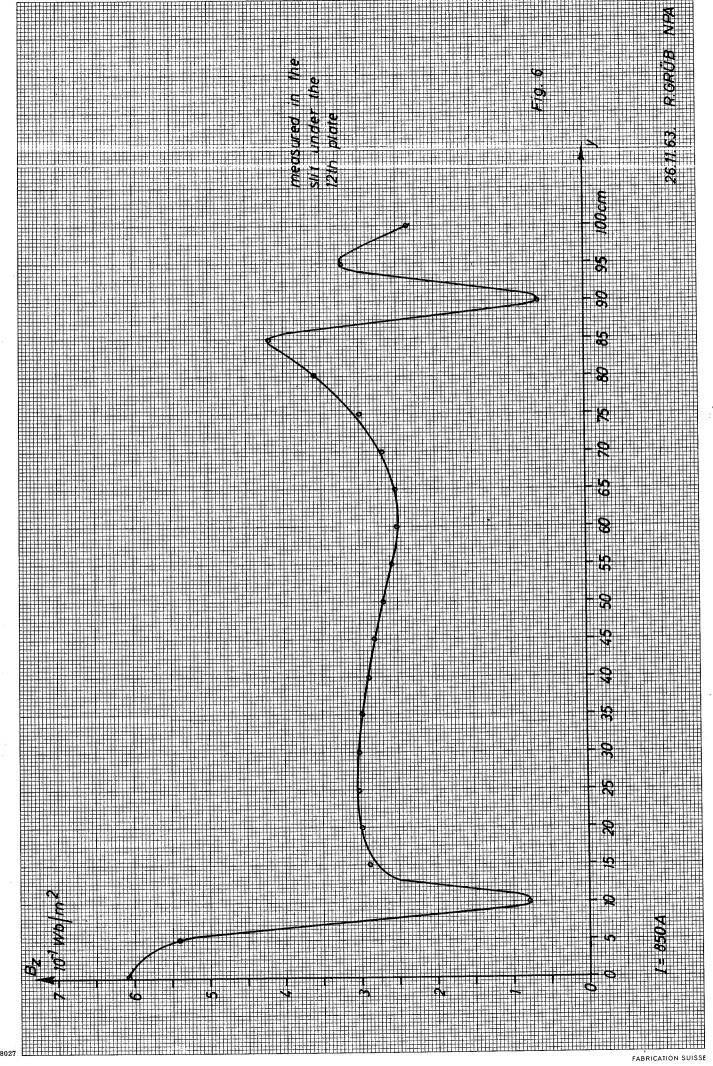
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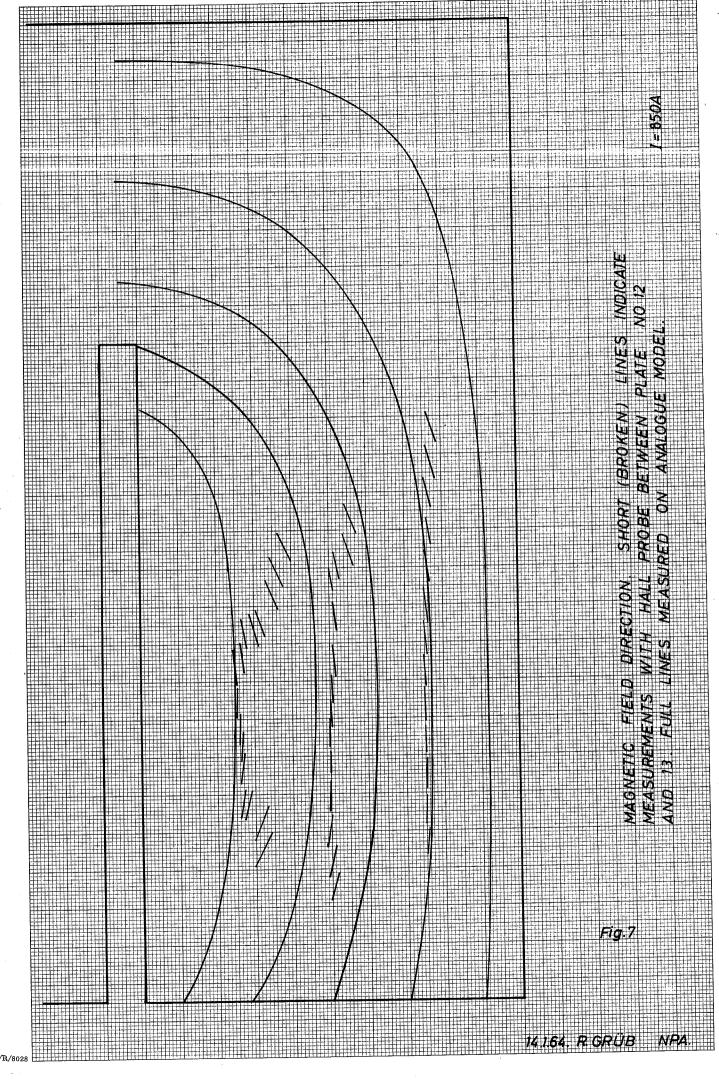




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