

um expectation values of time-ordered products (T-products) of operators, whereas the Schwinger technique deals with a functional generating the vacuum expectation values of covariant time-ordered products (T* -products) of operators. These two differ when high-spin fields, for example massive vector fields, are involved. The former is not covariant, whereas the latter is (being roughly speaking the covariant piece of the former). As physical objects are covariant, it is naturally simpler to deal with T* -products, rather than having to cancel the intermediary noncovariant objects arising through the use of T-products. Even in the case when high-spin fields are absent, for similar reasons the Schwinger approach may still simplify calculations in the presence of derivative couplings. Another omission in the book is the discussion of Richard P. Feynman's path-integral method. Only a small step is needed to convert functional expressions formally into path-integral formations, and with the recent resurgence of interest in the path-integral quantization of Yang-Mills fields and dual models, it might have been worthwhile, perhaps, to have the subject included. On the other hand, as the path integral is not a very well defined mathematical object, and as most problems soluble with the path-integral method are equally soluble with the functional methods, the omission is also very understandable.

A background in elementary quantum field theory is needed to read the book. It is suitable as a text or a reference for students with some knowledge of field theory, and it is also a very good book for non-expert researchers interested in the development of the field.

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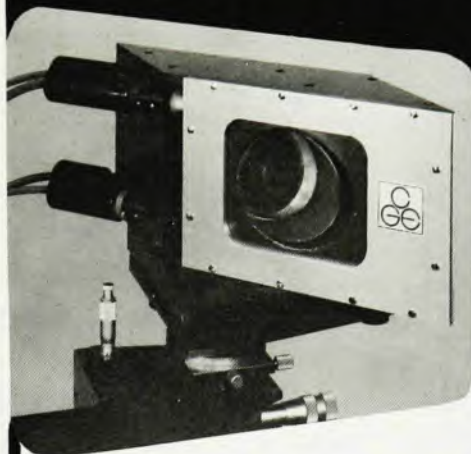
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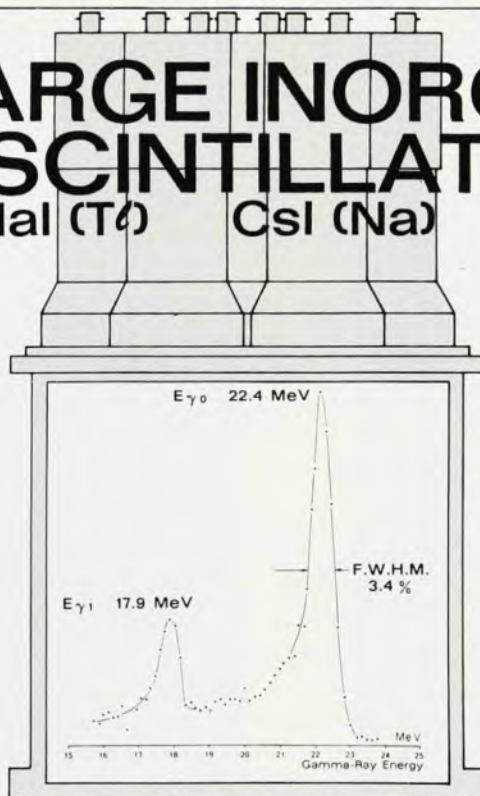
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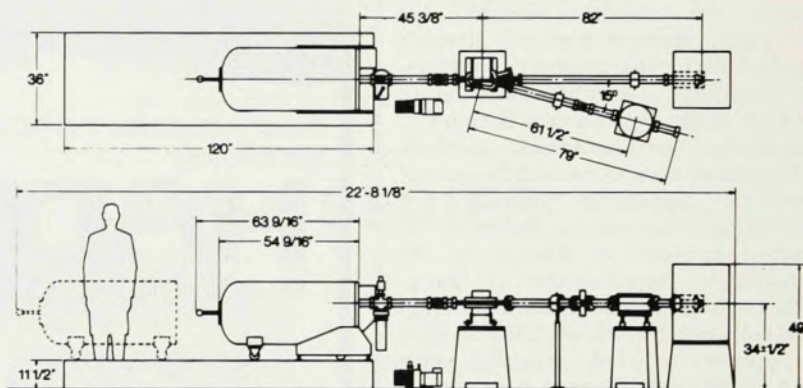
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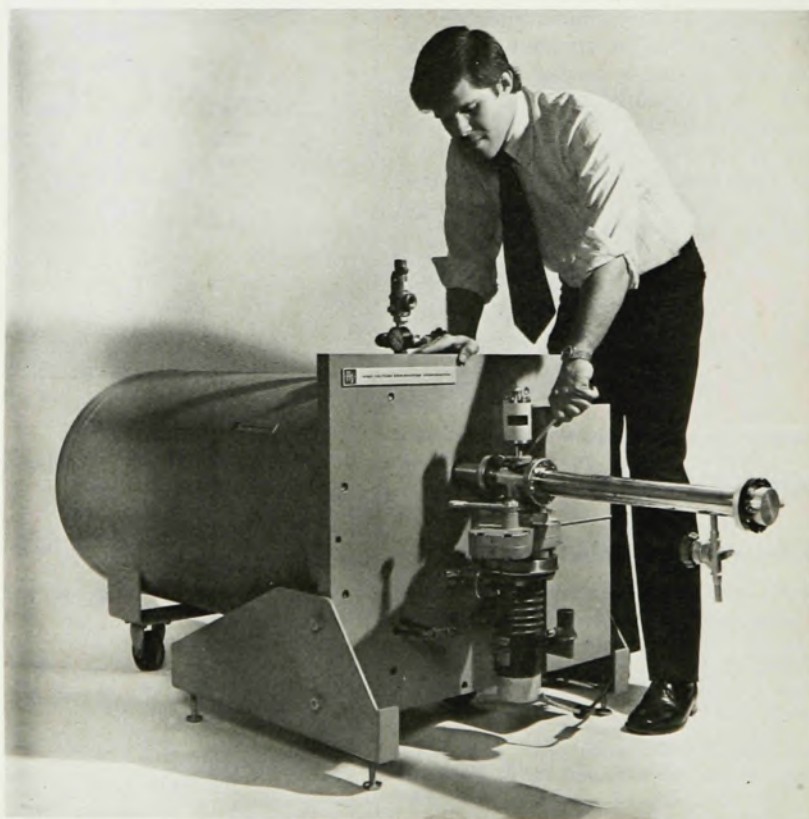
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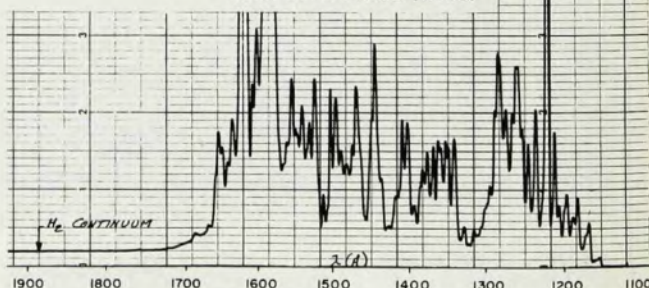
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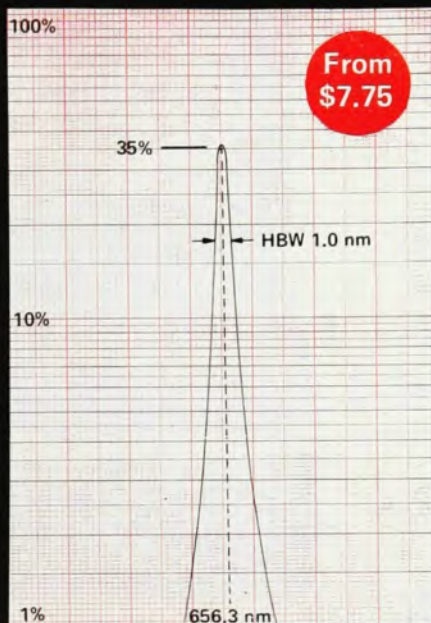
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