

## **Referee Report to the 52<sup>nd</sup> Nuclear Physics P.A.C. on the Project**

### **“Improvement of the JINR Phasotron and design of cyclotrons for fundamental and applied research”**

The report describes in great detail the status of the project and the impressive achievements from the technical point of view, also with mention of historical notes and with credits to former designers. The report shows clearly the immense knowledge accumulated by the JINR team involved in the construction of different types of cyclotrons and its ability to stay ahead of direct industrial competitors. It is remarkable that the same team is now spreading this expertise in the commissioning of the LINAC-200 to be used to accelerate electrons up to possibly 2 GeV.

Since the theme is reported as a “concluding theme”, it is not stated what the team intends to do in future. It would be important to define a list of priorities of unfinished works to be concluded in a reasonable short time and, in strict connection with the JINR needs and policy, of operative guidelines for the use of the new accelerators.

In conclusion, I am impressed for the extended progress and achievements. I suggest JINR directorate the elaboration of a plan for an efficient use of the new accelerators.

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