



Choice of the Tracker technology for MICE

Report of the referees

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Basic outcomes of the Tracker session

About the results obtained so far and presented to the collaboration by the Tracker group

1. The amount of work done is really enormous.

We are fully confident that all the R&D activities will be completed and will result in MICE reference publications.

2. Initial tests have shown both options were RF-hard
3. Simulation results have been obtained for the SciFi but not yet for the TPG.
4. The operation of the prototype has also been proven for the SciFi and not yet for the TPG.



Strategy

1. The choice of a technology should be based only on scientific and technical arguments, assumptions and results.
2. In order to keep credibility with respect to ourselves and to our teams and supporters, we have to stick to the proposal and to make the choice now.
3. Independently of our recommendation, the work presently going on for both options should be completed. It should fully address the questions and issues raised in the reference document and during this meeting.



Recommendations

1. The teams working on simulations in the Tracker group should join their efforts towards a closer cooperation.
2. We require from both TPG and SciFi to publish MICE notes explaining in full detail the constructions, their results, the performances of their setups and the way they obtained them (e.g. simulations and their ingredients).
3. As stated in the proposal, the SciFi should remain the baseline choice for design, engineering and construction.

In order to defend this option in front of the authorities, there are still many questions to be addressed and solved.

4. The TPG is still a potential backup/upgrade solution. It remains an important R&D activity of MICE and it must be brought to full completion.



What's next ?

1. List of questions

- resolutions ?

The simulations should be cross checked by both « teams »
(presently geographically separated)

- Photoelectron « budget » ?
- Material budget
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2. The collaboration should establish an exhaustive list of questions. When ?

3. Answers to come when?

End 2003?