

TCMB report on Science Council of Japan

Shin MICHIZONO

3rd subcommittee on Aug.23 10AM-12AM

1. Technical feasibility study (published on Feb. 2016) (by Nomura Research Institute)

Beam dump and CFS risk management are the issues.

Question) The technology is not matured at some regions (such as beam dump). Other beam dump system (like Plan B, Plan C) should be considered. Possible risks should be considered and be reported.

Answer) We are collaborating with J-PARC, CERN and RADIATE. And at this moment, the water dump is the best.

Comment) The subcommittee members want to know whether it is technically okay or not now (not after preparation period of 4 years).

We will prepare the following materials for next sub-committee on Sep.13.

1) List of the risks (and our response for these risks)

→ Risks such as beam dump failure and CFS relationship (including loss of power supply, risk during construction) and make simple answers

2) Beam dump radiation, accident response

→ including the tritium handling (recovery from failure)

3) Preparation period schedule

SRF related/Beam dump related/Positron source related

→ Clearly indicate what we will do during the preparation period.

2. Economic ripple effects (revised on Apr. 2018 for ILC250) (by Nomura Research Institute)

Subcommittee member (economist) mentioned that the economic ripple is not special at ILC. (same to other public projects)

-> science effects are difficult to evaluate correctly. (by Satoru)

3rd Committee on Aug.29 10AM-12AM

Talks by

- Masa YAMAUCHI "KEK's future plan and ILC"
- Hiroaki AIHARA (U. Tokyo, chair of JHEP) "Consensus on ILC in the high energy community"
- Ryoichi HAJIMA (chair of Japan Accelerator Society) "Japan Accelerator Society and ILC"

These 3 talks are well prepared and look good.

There are questions about accident countermeasure (such as earthquake, electric power failure)

She pointed out "ILC has said only good things to local people and does not explain the possibility of accident".

-> We are now preparing the material about "Risks and countermeasure" for Sep.13 subcommittee.

Schedule

(main committee)

4th main committee: Sep. 11 (Tue.) 10AM-12AM (Closed session)

5th main committee + sub committee: Sep.18 (Tue.) 10AM-12AM

(subcommittee)

Informal KEK tour: Sep. 6 (Thurs.) afternoon (by some subcommittee members)

4th sub-committee: Sep. 13 (Thur.) 10AM-12AM