

For further Discussions  
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# For further discussion

- Base-line design to be verified
  - Design parameters well defined,
  - How are they close to the ILC goal?
- How we may reach EDR
  - Learn mass production
  - Prepare for back-up ACD to secure the ILC goal,
- Unified design or Plug-in compatible design / fabrication?
  - Update of base-line design inevitably required,
  - Alternate design to back-up the base-line
    - plug compatible concept inevitably required,

# Understanding and Strategy

- No design yet satisfy the ILC performance,
  - No unified design can be yet firmly selected, even though the progress is significant and closing to reach the specification,
- How we reach the necessary design
  - Learn mass production from well established design (with recognizing less performance)
  - Try to keep more R&D to reach the performance with smaller scale,
  - Those can be carried out in parallel and complementary around the world,
  - It is important that both progress is to be shared in world wide scale,
  - It is also important that the all alternates to be plug-compatible to the base line envelope.

# How we may provide > 1000 cryomodules?

- As my personal consideration,
  - Sharing production with multiple institutions and multiple companies, to be inevitable
  - Multiple test facilities to be inevitably required,
    - delivery after the cold test to be well discussed,
  - Multiple capital investment (off-set) to be required independently in either the concept of “unified design” or “plug-compatible”

# Further discussions

- Base-line design parameters to be verified,
- Mass-production strategy to be established, based on the base-line design
- Alternate design and R&D well discussed for further selection, and to be prepared for back-up solution, with keeping “plug-in compatible” concept.