



## ILC-Japan

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### Physics WG

Ishino, Suehara

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- Explore interesting subjects that can be performed in **an  $e^+e^-$  collider**
  - **Synergy** to study **common topics** with other projects (LHC, Belle, ... etc. etc.)
    - ▶ Physics Objects: **Higgs Self-Coupling**, light DM, precise EW measurements, ...
    - ▶ Analysis techniques: Flavor Tagging, Soft object reconstruction, ...
  - **Collaboration with theorists** is important and should be continued
- **Increase activities/interests in  $e^+e^-$  collider physics** by partially incorporating the efforts of physicists working on other experiments.
  - The point is to find where **synergies can be expected**
  - Today, **Higgs Self-Coupling (Theory, LHC x2, ILC)**
  - Other experiments, probably Belle/Flavor Physics will be followed

14:00 → 14:10 **Introduction**

Speaker: Masaya Ishino (University of Tokyo (JP))

14:10 → 14:35 **Testability of models with a deviation in the hhh coupling**

Speaker: Katsuya Hashino

Theory

14:40 → 15:05 **Higgs-Self Coupling at LHC-ATLAS**

Speaker: Tatsuya Masubuchi (ICEPP)

LHC x 2

15:10 → 15:35 **HH → 4b at ATLAS**

Speaker: Hayashida

15:40 → 16:00

Break

16:00 → 16:25 **Higgs Self-Coupling at ILC**

Speaker: Julie Munch Torndal (DESY)

ILC

16:30 → 17:00 **Discussion** †

17:00 → 17:20 **Interplay of physics and detector development for Higgs factories**

Speaker: Taikan Suehara (Kyushu University)

Physics ↔ Detector

17:20 → 17:40 **Discussion**