

Introduction

Taikan Suehara (ICEPP, U. Tokyo)

on behalf of ILC-Japan physics working group

ILC-Japan

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Masaya Ishino (University of Tokyo)

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KEK: High Energy Accelerator Research Organization * ex-officio

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Physics Working Group

Chair: Taikan Suehara (University of Tokyo)

Detector Working Group

Chair: Wataru Ootani (University of Tokyo)

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ILC-Japan Physics working group

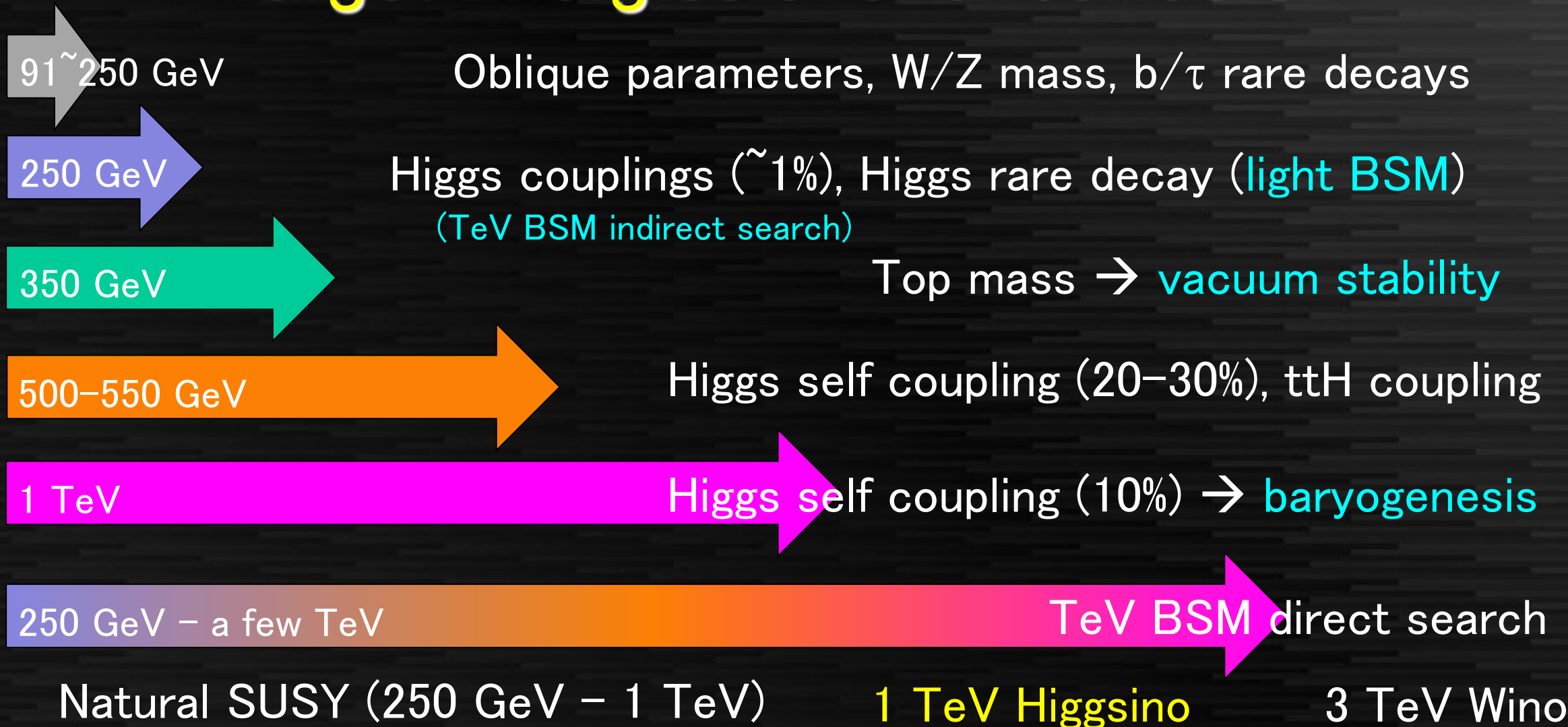
- WG chairs
 - T. Suehara (U. Tokyo, chair)
 - J. Tian (U. Tokyo, co-chair)
- Core group members
 - S. Chen (Kyoto U., ATLAS/quantum)
 - S. Hirose (Tsukuba U., ATLAS)
 - Y. Horii (Nagoya U., ATLAS)
 - D. Jeans (KEK, ILC)
 - T. Kitahara (Chiba U., theory)
 - T. Masubuchi (Osaka U., ATLAS)
 - K. Nakamura (KEK, Belle II)
 - K. Tsumura (Kyushu U., theory)
 - M. Ishino (U. Tokyo, ex-officio)
- **Contact core group members**
 - If you are interested to join discussions
 - If you are interested in ILC-related physics studies
- Any contributions are highly welcome!
- WG roles
 - Leading physics studies related to ILC/Higgs factories
 - Clarify physics motivations including upgrade paths
 - Communicate these motivations with inside/outside our community
 - Encourage wider contributions and pursue synergies with ongoing projects
 - Communication with international community to increase visibility of activities in Japan
- Current Activities
 - A website including ILC physics summary
 - Draft is being prepared, first version will appear in this year?
 - Communication with individual institutes/labs
 - Importance of discussions in small groups
 - First visit to Osaka U. done in early October, several more planned
 - Series of physics seminars (this activity)
 - Planned ~ once a two months (next: December?)
 - ILC summer school in 2025 (under discussion)
 - More to come...

International situations / ongoing activities

Details discussed in [CFP townhall meeting](#)

- European strategy: call for input by March 2025, conclusion in mid 2026 for CERN's next projects with priority
- JAHEP input is being drafted in CFP (by end of this year)
- ECFA Higgs/Top/Electroweak factory studies: summarizing physics/software/detector activities for European strategy
- FCCee feasibility study will conclude in March 2025, continuing as pre-TDR phase (towards possible decision in ~2028)
- LCVision: unified view of all LC communities (ILC, CLIC, C³, ...)
 - Starting from SCRF (like ILC) then several upgrade paths
 - LC@CERN will also be proposed for European strategy
- ILC IDT: Cost update (since 2013/2017) is ongoing
- ITN: international cooperation on accelerator development taking shape

Target Energies of e^+e^- colliders



Today's agenda

ILC-Japan physics seminar #1: EWBG

Monday 21 Oct 2024, 15:00 → 16:30 Asia/Tokyo

Description ILCやヒッグスファクトリーの物理を主なトピックとして、ILC-Japan physics seminarをZoomにて定期開催します。初回のテーマはEWBGです。(最初にイントロとしてILC-Japanの概要を少し話します。)トークの言語は英語の予定です。日本語の質問も受け付けます。

We (as ILC-Japan physics WG) will hold a series of seminars related to physics on ILC and Higgs factories. The topic of the first seminar is EWBG. Overview of ILC-Japan physics WG will also be shown as an introduction. Talks will be given in English.

Zoom connection:

<https://us02web.zoom.us/j/84034960249>

(Recently there are intruders so we avoid to put a single-click link. Sorry for the inconvenience.)

meeting ID: 840 3496 0249

passcode: 497740

15:00 → 15:10 **Introduction and status of ILC-Japan physics WG**

Speaker: Taikan Suehara (ICEPP, The University of Tokyo)

🕒 10m

15:10 → 16:10 **Seminar: Towards verification of electroweak baryogenesis**

Speaker: Eibun Senaha (Van Lang University)

🕒 1h

Let's have fruitful discussions today!