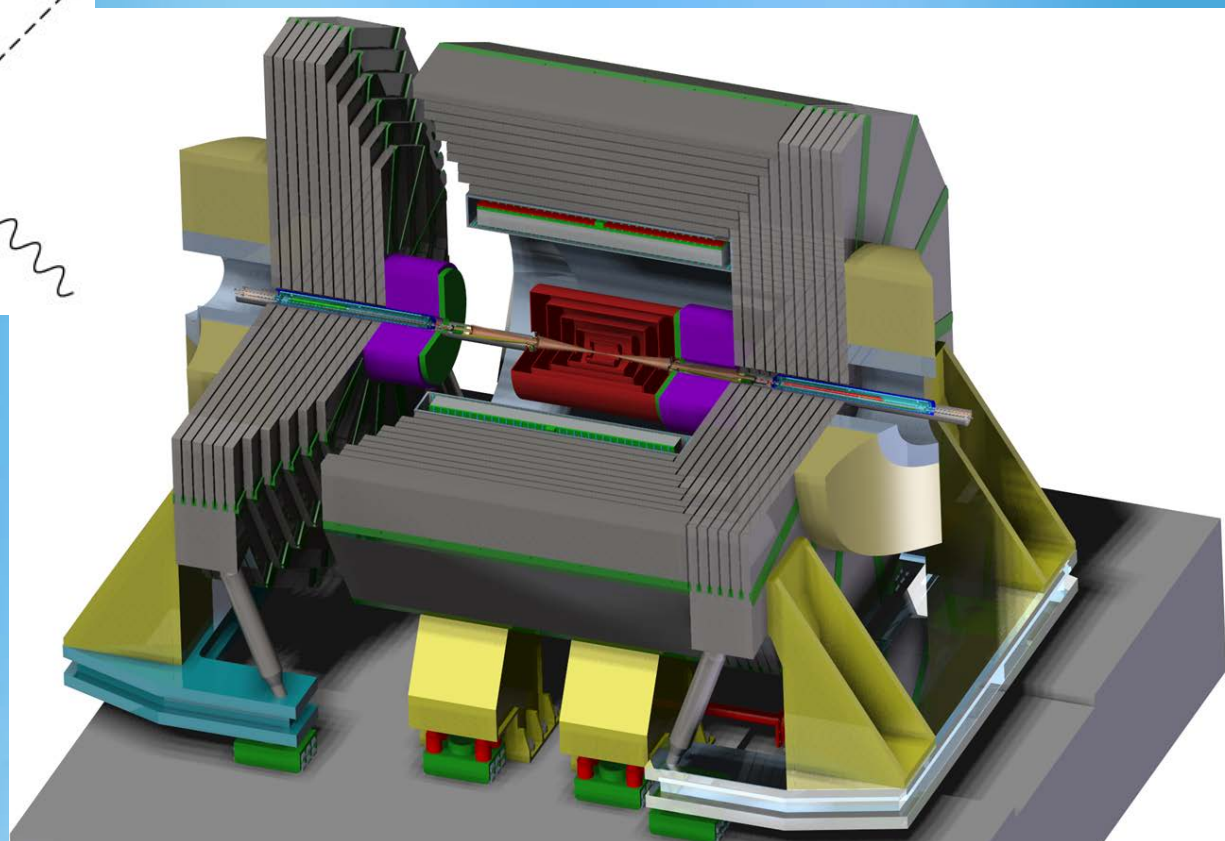
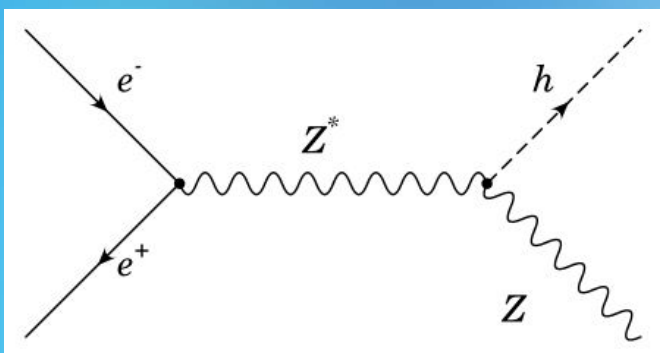


The SiD Consortium and Detector – Introduction and Status



Andy White

ILC Project – where do we stand?

- Reduction of initial scope proposed
- “**ILC250**” a major topic of this meeting.
- Re-evaluation (EFT-based) of physics case – effect(s) on SiD physics program?
- 2 ab^{-1} /12 years as initial program
- Progress in Japan – positive response to ILC250 –Asai committee: ILC is “indispensable”.
- Understanding that if there is no clear decision by the end of 2018, the game is over.
- **Most likely: a statement of intent to carry out the ILC project subject to agreement on international participation** – this would be a big step!

ILC Project – where do we stand?

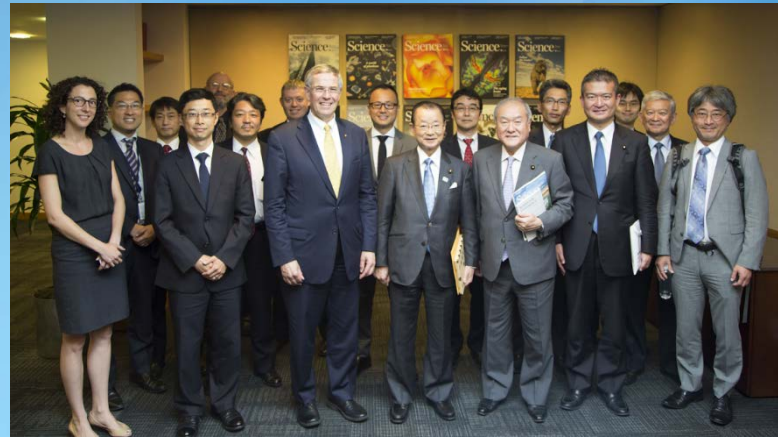
Since Morioka - **In the US:**

- Two **visits to DC/Congress** by members of the Federation of DIET members for the ILC.
- Positive response to advanced projects in science and technology, and US-Japan cooperation.
- Laying the foundation for future funding requests for the ILC.
- Possible formation of **Congressional Caucus to support ILC?**
- Discussions with the Hudson Institute about securing administration support for the ILC.
- Meeting with Rush Holt (CEO/AAAS) – supportive of international science projects like ILC.

Visit(s) to Washington DC



DoE/Office of Science



AAAS



Rep. Joaquin Castro



Hudson Institute

ILC Project – where do we stand?

Since Morioka – **Europe**:

- **European Action Plan** for the ILC
- Approaching the beginning of the next **European Strategy**:
 - Sept 2017 – appointment of secretary
 - 2018 – appointment of members
 - 2019 – start strategy deliberations
 - 2020 – Report
- Critical that ILC is given go-ahead in Japan (subject to international cooperation) as input to EU Strategy.

ILC Project – where do we stand?

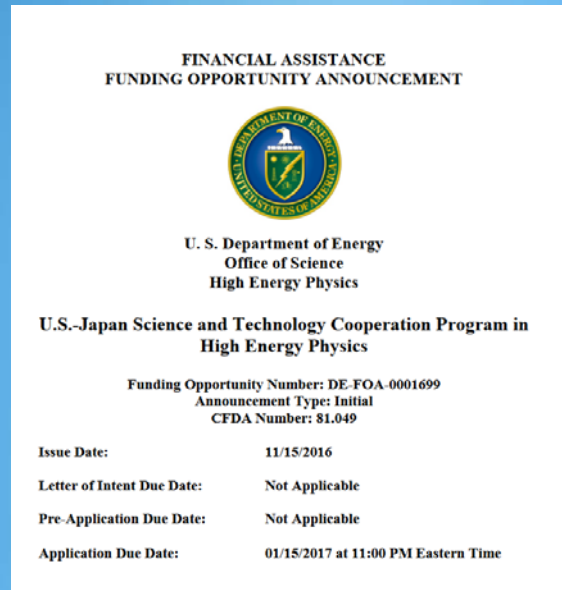
The next 12-18 months are critical:

At *least* the **announcement of the intent to proceed with the ILC** should come from Japan:

- > to be meaningful as input to the European Strategy
- > to secure ongoing support for ILC in the U.S.
- > to start the process of securing full international financial support...at least 2-3 years...

Support for SiD Activities

- U.S.: New round of **US-Japan Program**
 - Collection of Labs and Universities submitted proposal



- Our integrated request was for ~\$400K.
- We heard that our proposal reviewed very well, but due to “political considerations” we were awarded only~10% of our request.
- We will use the funds to support our SiD activities as far as possible (e.g. travel to Workshop(s), Optimization sessions,...
- We are very grateful for additional support from our Japanese colleagues!

SiD Activities

- **Promotion of SiD** at Workshops and Conferences

We have many prepared presentations if you have an opportunity to talk at a meeting – this will become a major exercise if ILC proceeds in 2018 – recruiting colleagues, getting community support.

- **SiD Optimization meetings**: every Wednesday 1000 US Central
An excellent way to get involved with SiD – all levels of expertise are welcome – especially undergraduates!
- SiD representatives on LCB, LCCPDeb, ALCC, MDI/CFS.

What should we be doing now?

We have a **good basic design concept** – can deliver physics results

Need to complete the DD4HEP implementation of SiD and start using for Physics studies – revisit DBD studies++

Revisit previous (new/EFT?) physics studies.

NOT a TDR! Long way to go to achieve a real detailed design.

Question all aspects of SiD!

Staged detector/one detector?

Opportunities presented by emerging technologies – how to use in SiD?

How can we get the same physics performance at lower cost?

Why should SiD be “the ILC Detector”?

Today's meeting

** Take advantage of having most of us together to advance*

09:00	Welcome and Introduction to SiD meeting <i>Kavli Auditorium, bldg. 51, SLAC</i>	<i>Andy White</i> 09:00 - 09:15
	SiD simulation and reconstruction status <i>Kavli Auditorium, bldg. 51, SLAC</i>	<i>Dan Protopopescu</i> 09:15 - 09:30
	Calibrating Pandora PFA <i>Kavli Auditorium, bldg. 51, SLAC</i>	<i>Steven Green</i> 09:35 - 09:55
10:00	FLUKA simulation of BeamCal and UCSC activities <i>Kavli Auditorium, bldg. 51, SLAC</i>	<i>Benjamin Smithers</i> 10:00 - 10:25
11:00	SiD Institutional Board Meeting <i>Kavli Auditorium, bldg. 51, SLAC</i>	<i>Philip Burrows</i> 11:00 - 11:30
	AHCal calibration and simulation <i>Kavli Auditorium, bldg. 51, SLAC</i>	<i>Felix Sefkow</i> 11:30 - 11:45
12:00	HCal simulation studies <i>Kavli Auditorium, bldg. 51, SLAC</i>	<i>Andrew Myers et al.</i> 11:50 - 12:05
	ECal studies <i>Kavli Auditorium, bldg. 51, SLAC</i>	<i>Amanda Lynn Steinhebel</i> 12:10 - 12:30

Today's meeting

13:00		
	Third Optimisation session - discussion and planning	<i>Aidan Robson et al.</i>
14:00	<i>Kavli Auditorium, bldg. 51, SLAC</i>	13:30 - 14:15
	Forward Look for SiD	<i>Marcel Stanitzki</i>
	<i>Kavli Auditorium, bldg. 51, SLAC</i>	14:15 - 14:35
	Discussion - Going Forward with SiD	<i>Andy White et al.</i>
	<i>Kavli Auditorium, bldg. 51, SLAC</i>	14:35 - 15:00
15:00		

SiD/ILC Status

Assuming some movement in 2018 towards a real ILC Project:

2017 - 2019 Optimization of SiD (can only truly be done with serious resources after project approval) and production of significant pre-production prototypes.

2019 -2022 Technical Design Report.

2022 – 2023 Review of TDR

2024 – 2030 Construction of SiD

2030 – 2032 Commissioning and start of data taking.