

Introduction

The III. ILD meeting

Seoul, Korea, 16-18.2.2009

Purpose of the meeting

Discuss the state of the LOI for ILD

- Benchmark reactions
- Optimization
- Subdetectors
- Detector Integration

The goal: come to common point-of-view on all critical issues needed to complete the LOI

A reminder: what is the LOI

Letter of intent will be submitted to Research Director / ILCSC for "validation"

Only a validated concept will receive continuing support from the different ILC bodies

Letter of intent should

Be reasonably brief

Show the state of the technological preparations

Show the physics capabilities of the concept

Discuss the strength and organisation of the concept group

The LOI does not represent a commitment by any group towards ILD or the eventual construction of ILD

Expected LOI content

- Guidelines given by ILCSC
- More given by RD and IDAG
- About 100 pages + supporting documents

- Detector philosophy, sub-detectors and alternatives
- Evaluation of physics performances based on a common process benchmark list
- Integration issues with accelerator
- Status of a realistic detector model
- Identification of state, plans and timescale for required R&D and technological options
- Preliminary cost estimate
- Structure of group and capacity to carry out the work
- Resources needed as function of time for technical design

Expected LOI contents: final wording of IDAG additional requests

- (1) Detector optimization: identification of the major parameters which drive the total detector cost and its sensitivity to variations of these parameters.
- (2) Plans for getting the necessary R&D results to transform the design concept into a well-defined detector proposal.
- (3) Conceptual design and implementation of the support structures and the dead zones in the detector simulation.
- (4) Sensitivity of different detector components to machine background in the context of the beam parameter space considered in the RDR.
- (5) Calibration and alignment schemes.
- (6) Estimates of overall size, weight, and requirements for crane coverage and shielding.
- (7) Push-pull ability with respect to technical aspects (assembly areas needed, detector transport and connections, time scale) and maintaining the detector performance for a stable and time-efficient operation.
- (8) A statement about energy coverage, identifying the deterioration of the performance at energies up to 1 TeV and the consequent detector upgrades.

Status of ILD LOI

Significant amount of material collected:

All available from

<http://www-flc.desy.de/ildloi/internal/websvn/listing.php?reaname=ILDLOI>

Or through the www.ilcild.org Web page

Remark: please register for ilcild.org
(otherwise you need a password to access the LOI)

Accessing the WEB depository

The files are kept in a WEB accessible depository:

WEB depository

Full link (just for the record):

[http://www-flc.desy.de/ildloi/internal/websvn/listing.php?
repname=ILDLOI&path=%2Ftrunk%2F#path_trunk_](http://www-flc.desy.de/ildloi/internal/websvn/listing.php?repname=ILDLOI&path=%2Ftrunk%2F#path_trunk_)

You can get all source files and the pdf file of the LOI

Check regularly, since updates happen (sometimes) frequently

Last modification

Rev 36 2009-02-15 13:53:27 GMT

Author: behnke

Log message:

updated and extended the R&D plan section according to the EB discussions on feb 15, 2009

Path	Last modification	Log	Tarball
<input type="checkbox"/> branches/	1 57d 23h rdiener	View Log	Tarball
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<input type="checkbox"/> detector/	1 57d 23h rdiener	View Log	Tarball
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<input type="checkbox"/> LOI.tps	36 42m behnke	View Log	
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<input type="checkbox"/> mytrc_style.sty	1 57d 23h rdiener	View Log	

[Compare Paths](#)

A note to authors

Boring technical stuff, but:

PLEASE use the style file provided

PLEASE use bibtex for references (see next slide)

PLEASE get the newest version from the WEB before making changes

Bibtex 101

To make life easier for the final edit, we are using bibtex for references

Classical latex style reference:

```
\bibitem{mystuff} A.Genius etal., {\it A guide to the universe},  
JofIR {\bf B}5 (2010) 100345.
```

Bibtex equivalent:

```
@Article{mystuff,  
author="A.Genius",  
title="A guide to the universe",  
journal="JofIR",  
volume="B",  
year="2010",  
pages="100345"  
}
```

Spires gives you a valid
bibtex record!

There are many more fields
if you need them - see bibtex
documentation on the WEB

This meeting

- Identify missing pieces in the LOI
- Formulate policies where needed (e.g., R&D policy, others)
- Start the reviewing process of the physics analyses
- Discuss actual text, pictures, etc.

Parallel sessions:

Tuesday afternoon,

Groups who want a session should tell Hitoshi or myself today so that we can post a plan tomorrow morning!

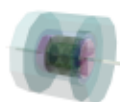
Who signs the LOI

ILD EB decided in Chicago to use an open sign-up policy:

Invitation for people to sign went out a week ago

Subscription is by WEB based form

We are currently at 220+ signers.

**ILD LOI****Letter Of Intent for the ILD Concept**

HOME

AUTHORLIST

INTERNAL

Subscribe

View

Subscription to the Signatories List for the ILD LOI

On this page you can subscribe to become an signatory for the LOI (Letter Of Intent) for the ILD Concept. Everyone involved or interested in the ILD is invited to subscribe (see the [Invitation to sign the LOI for ILD](#)).

Please note the steps which are necessary to complete the subscription:

1. Fill out this form and confirm your entries on the next page.
2. An e-mail will be sent to you with a confirmation link (this e-mail also contains a link to the current version of the ILD LOD).
3. You have to **follow the link in the e-mail to confirm your entry** (else it will not show up in the official list).
4. After you have completed steps 1 to 3, you can check if everything worked by looking at the [list of confirmed entries](#).

Please take a minute to enter your details here as they should show up in the author list. In the final LOI document, the data will be included listing your name with a reference to your institute(s).

Person(s):

Please enter the name(s) here (characters allowed are "a-z,A-Z" including umlauts and accents, space and ".");

1. First Name: (including initials, without title)

Some numbers

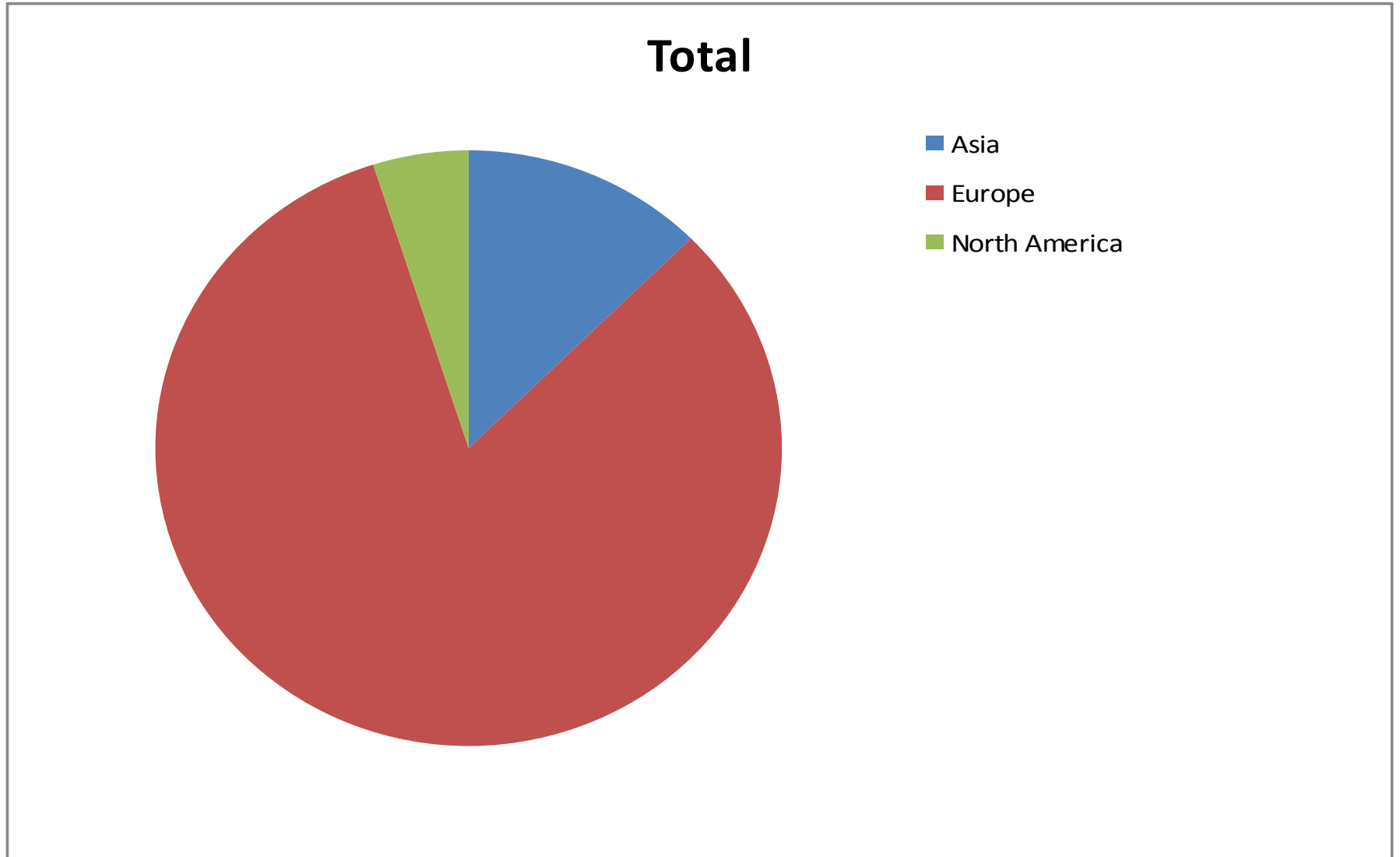
Note:

These numbers are a snapshot from yesterday evening.

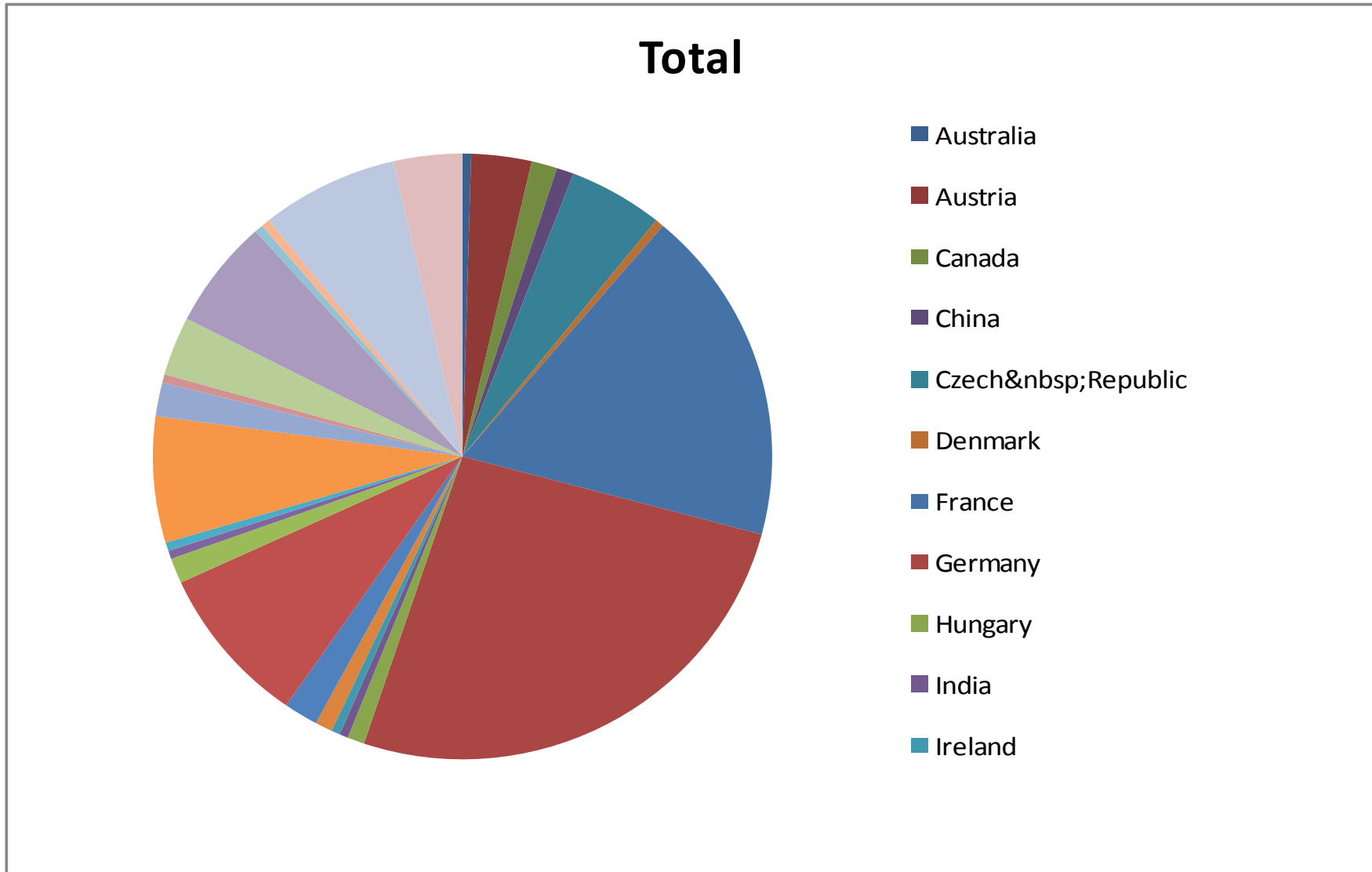
They are not at all final.

They will change.

Distribution of Regions

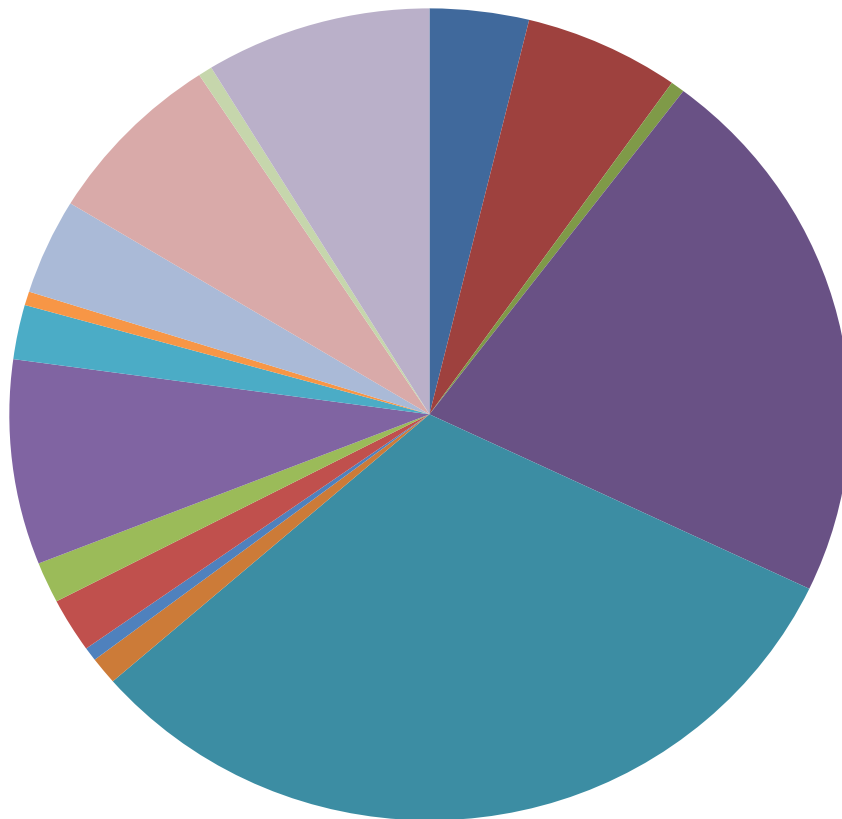


Distribution of Countries



Europe

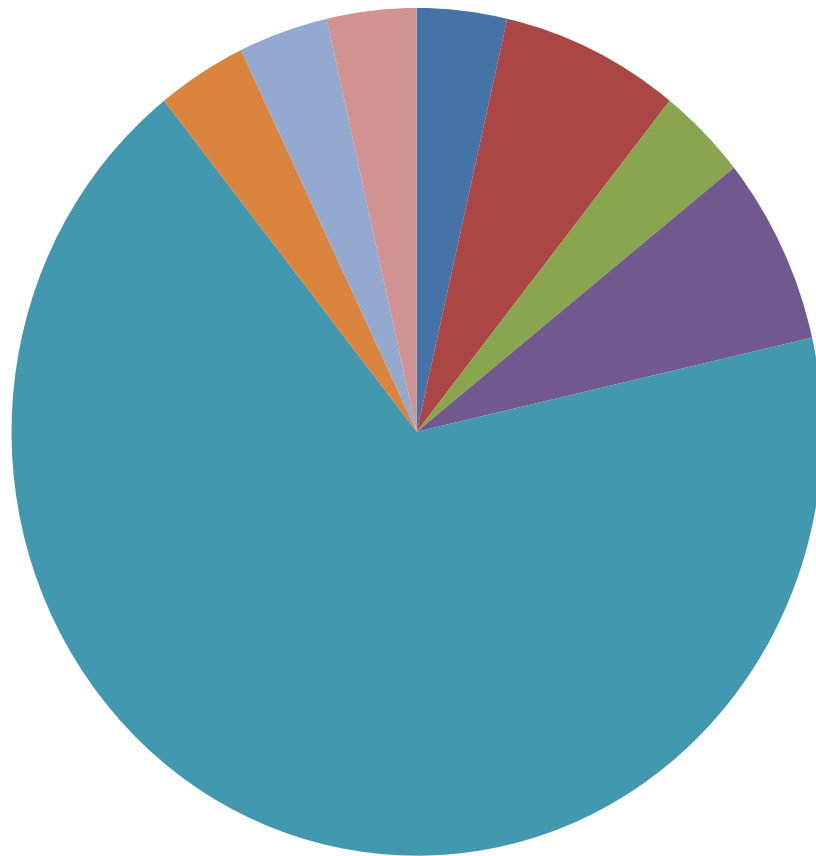
Total



- Austria
- Czech Republic
- Denmark
- France
- Germany
- Hungary
- Ireland
- Italy
- Netherlands
- Poland
- Romania
- Russian Federation
- Serbia and Montenegro
- Spain
- Switzerland
- United Kingdom

Asia

Total



■ Australia

■ China

■ India

■ Israel

■ Japan

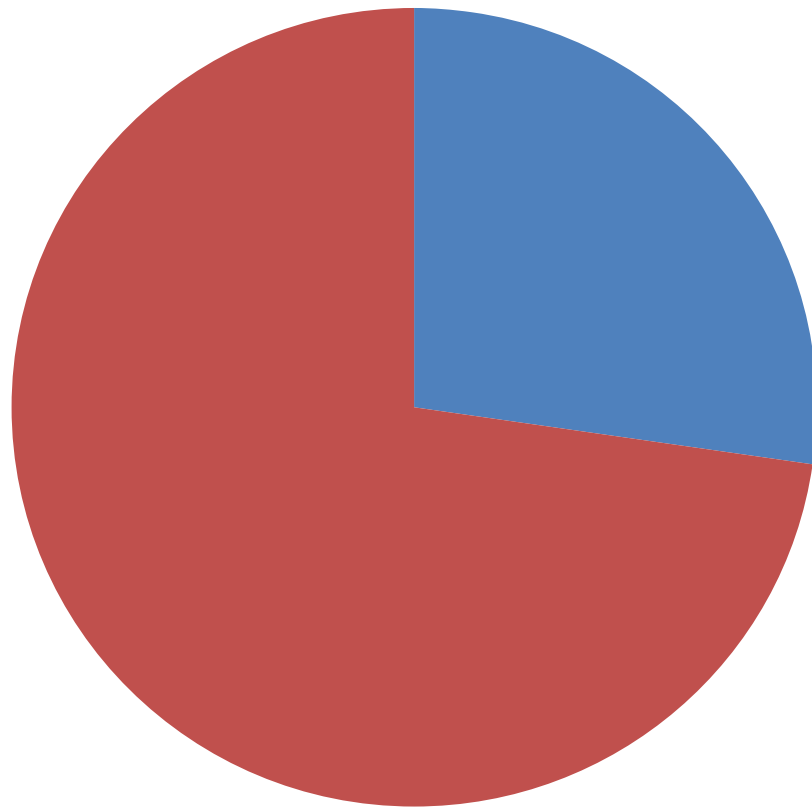
■ Oman

■ Philippines

■ Taiwan

Americas

Total



■ Canada

■ United States of America

Conclusion

- LOI is progressing, but lots of work remains
- Very important: review of the physics results has to start!
- Please read the LOI and comment
- Please help us to convince more people to sign up to ILD

Deadline for the LOI: March 31, 2009

Deadline for contributions within ILD: March 15, 2009