



# Welcome to the LCTPC collaboration meeting

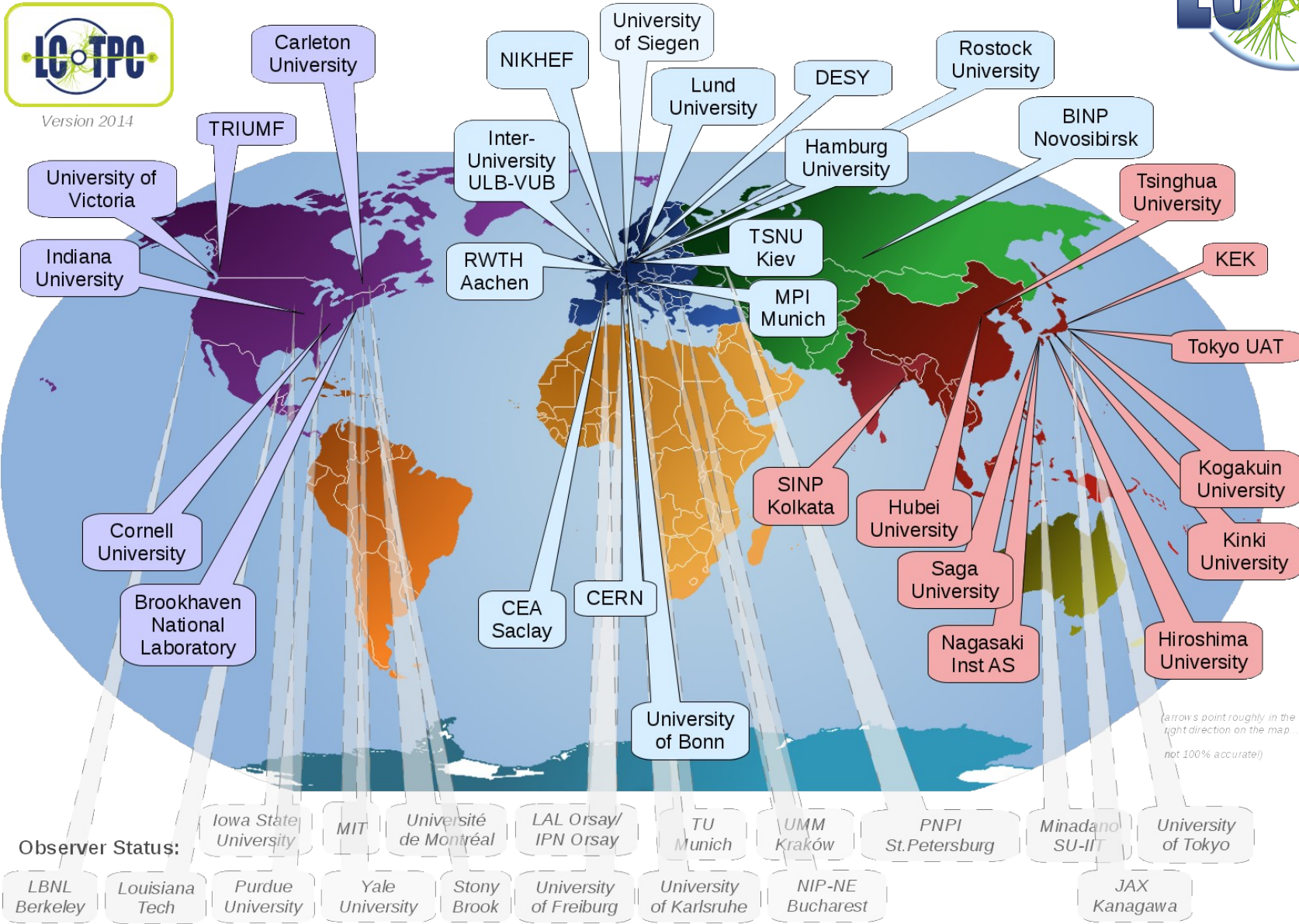
DESY, 30.6.2014

# Since the last CM



- ECFA detector panel review
- 2 successful test beam campaigns
- New equipment: CO<sub>2</sub> cooling plant TRACE
- Great progress in common developing common analysis tools.
- 1 institute is applying to sign the MoA: Hubei

# New world map



# LCTPC review in fall 2013



Very successful: ... The committee congratulates the LCTPC collaboration for all the impressive work performed until now. ...

But they also had some suggestions, which we should take seriously, e.g.:

- The collaboration will need to **increase resources in the area of technological and system R&D**, with larger prototypes that can explore the possible technological challenges of the construction of a TPC for the LC detector.
- The committee encourages the collaboration to prepare an **overall plan with a more detailed schedule** in the system aspects of the detector, including clear milestones to decide among the different technologies in time for a possible TDR within the next two/three years.
- The committee recommends that in view that the ion back flow only affects the position resolution in a limited radial region (385 to 550mm) the collaboration should look into the possibility of **limiting the gating arrangements to the affected Region**

=> Discussion by Takeshi

# ILD optimization:



The optimization process has started, but are we involved?

Tracking detectors were discussed only once.

We should have people with TPC background doing some of the simulations, so we get some ideas what our TPC performance has to look like (e.g. 2 track resolution)

Start our own simulations (pad size, digitization frequency, ...).

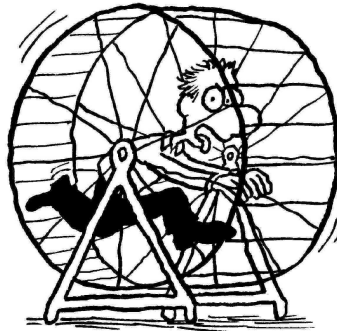
Details see talk by Ties



# Charge for the CM



Get out of hamster wheel



Stand back – and see if we are

- \* still on the right track
- \* address all of the issues mentioned before
- \* missing something for the final design



- There are at least 45 min. of discussion time per session
- Presentations should be overview style and meant to start the discussion
- 3 important areas have been addressed by three sessions: electronics & Final modules, next LP-modules, analysis – where we should reach a higher degree of homogeneity
- other topics are also very important, but can be only addressed shortly

# Schedule



## Monday 30 June 2014

### Overview - Seminar Raum 1 (08:55-12:00)

time	title	presenter
08:55	Welcome	KAMINSKI, Jochen
09:10	Status of ILC project in Japan	FUJII, Keisuke
09:30	News from ILD	Dr. BEHNKE, Ties BEHNKE, Ties
09:50	Discussion on ECFA review and list of priorities	MATSUDA, Takeshi
10:30	coffee break	
11:00	Status of T24/1 test beam area	DIENER, Ralf

### Electronics, pad plane, ILD-TPC modules - Seminar Raum 1 (13:30-16:00)

time	title	presenter
13:30	Report on (S)ALTRO electronics and further plans of the Lund group	Prof. JONSSON, leif
14:00	VMM chips	BELLERIVE, Alain
14:15	Electronics beyond AFTER and SALTRO	COLAS, Paul COLAS, Paul
14:35	Cooling	FUSAYASU, Takahiro FUSAYASU, Takahiro
14:50	Larger Module Sizes	COLAS, Paul COLAS, Paul

### Next LP-Module Design - Seminar Raum 1 (16:30-19:00)

time	title	presenter
16:30	New module with InGrids	LUPBERGER, Michael LUPBERGER, Michael
16:45	Status and outlook of the Asian modules	
17:00	Status and outlook of the DESY modules	
17:15	Status and outlook of the MM modules	COLAS, Paul COLAS, Paul
17:30	GEM Gate test and wire gate test progress	KATSUMASA
17:50	Some ideas for a common module	KAMINSKI, Jochen KAMINSKI, Jochen
18:10	Discussion	

## Tuesday 01 July 2014

### Analysis - Seminar Raum 1 (09:00-11:00)

time	title	presenter
09:00	Analysis Overview	Dr. MUENNICH, Astrid MUENNICH, Astrid
09:30	Overview of reconstruction and analysis chain for pixel data	Mr. NOORI SHIRAZI, Amir
09:45	Summary of MM reconstruction and analysis	GANJOUR, Serguei
10:05	Discussion	

### Next Steps - Seminar Raum 1 (11:20-13:00)

time	title	presenter
11:20	New fieldcage	DIENER, Ralf PRAHL, Volker PRAHL, Volker
11:40	High magnetic fields (tbc)	MATSUDA, Takeshi
12:00	common test beam with other sub detectors.	Mr. LAKTINEH, imad Mr. LAKTINEH, imad
12:20	External tracker	MÜLLER, Felix DIENER, Ralf
12:30	Comments on preparations towards a technology decision	FUJII, Keisuke
12:50	Discussion	

### Collaboration Board Meeting - Seminar Raum 1 (14:00-18:00)



# Dinner Tonight



Panetteria Italiana at 7:30 pm ~15 people

Google Maps interface showing a route from Osdorfer Landstraße/B431 to an unknown street. The route is highlighted in blue and circled in red. The estimated time is 11 minutes for 900 meters. The map shows a residential area with various streets and buildings.

Route details:  
Zum Hünengrab: 900 m, 11 Minuten  
Notkestraße: 1,0 km, 12 Minuten

Directions:  
1. Auf Osdorfer Landstraße/B431 nach Südosten Richtung Groß Flottbek Straße/Zum Hünengrab  
2. Links abbiegen auf Zum Hünengrab  
3. Leicht links abbiegen auf Notkestraße  
Teilweise für den öffentlichen Durchgang gesperrte Straße

