

OLYMPUS Collaboration Meeting

Monday, 30 August, Building 66

09:00 - Welcome and agenda - R. Milner
09:10 - TDR - R. Milner
09:30 - Preparation for MAC - R. Milner
10:00 - Status of funding, organisation - All

10:30 - Coffee

10:45 - Organisation, future - D. Hasell
11:00 - Status / plans for Monte Carlo - D. Hasell

12:00 - Lunch

13:00 - Target safety meeting
14:00 - Status / plans for WC and GT - D. Hasell
14:15 - WC and GT electronics - A. Winnebeck
14:30 - Status / plans for TF - I. Lehmann
14:50 - Status / plans for LM - M. Kohl
15:10 - LM readout and test results- S. Frullani

15:30 - Coffee

16:00 - Meeting with J. Mnich and M. Fleischer

16:30 - Status / plans for MW - A. Krivshych
16:50 - Status / plans for SM - ???

19:00 - Dinner - Restaurant Eisenstein
Friedensallee 9

<http://www.restaurant-eisenstein.de>

Tuesday, 31 August, Building 66

09:00 - Specialised discussions as needed TBA
11:00 - Novosibirsk experiment - D. Toporkov

12:00 - Lunch

14:00 - Schedule - U. Schneekloth
14:20 - Beam studies - A. Winnebeck
14:40 - OLYMPUS assembly / plans - J. Hauschildt
15:00 - Target chamber, cell, and beamline - J. Kelsey

15:30 - Coffee

15:45 - Target cell - P. Lenisa
16:00 - DORIS - Frank Brinker
16:15 - Electronics hut organisation - A. Winnebeck
16:30 - Status / plans for DAQ - C. Funke
16:50 - Status / plans for SC - A. Izotov
17:10 - Next meeting, Shirts, and AOB - D. Hasell

Next talk

Collaboration Organisation

Guidelines, rules, charter ???

- should we formalise somethings?

Collaboration members

- physics and graduate students (undergraduates ?)
- fixed once per year (summer solstice, April 1, ???)
- determines fraction of operating costs for each institute
- determines number of shifts required from each institute
 - includes test runs in 2011 and 2012

Author lists

- physics papers
 - collaboration members plus ?
 - engineers included on first significant physics publication
- technical papers
 - reduced set of authors with principals involved including engineers

Collaboration Organisation

Steering committee

- or group leaders

Presentations

- abstracts submitted to steering committee for approval
- slides showing results must be approved in advance or previously presented

Analyses

- organisation of topics and responsibilities
- require second analysis ?
 - blind analyses ?

Publications

- present result to collaboration
- review by small group of experts
- distribute to collaboration for comments

Next talk

Future Plans for OLYMPUS

DESY IdeenMarkt

- test beam operation using DORIS
- FLASH, XFEL, HERA

Next IdeenMarkt 23-24 November, 2010

- deadline for abstracts 5 November, 2010

Extended running of OLYMPUS on DORIS

- current program more statistics
- current program different beam energies
- deuterium target
- new physics goals
 - dark matter

Moving OLYMPUS

- FLASH, XFEL

Next talk

OLYMPUS Monte Carlo

A lot of progress has been made since last meeting

- current revision is 122
- has improved user interface
 - set magnetic field scale factor, beam energy, angle limits, etc.
 - /Olympus/MF/scale -1
 - /Olympus/Gen/Ebeam 1.5 GeV
 - /Olympus/Gen/epThetaMin 12 degree
- produces true and smeared hit coordinates in both world (OLYMPUS) and local (detector) coordinate systems
 - resolutions for tracking detectors in local (detector) x, y coordinates
 - resolutions for time of flight in y coordinate and time
- thresholds for hits in each detector
- new makefile integrated with ROOT (thanks Luigi Capozza - Mainz)
 - make dict
 - make
 - make solib
 - make omcroot
 - OLYMPUS
 - OMCroot

OLYMPUS Monte Carlo

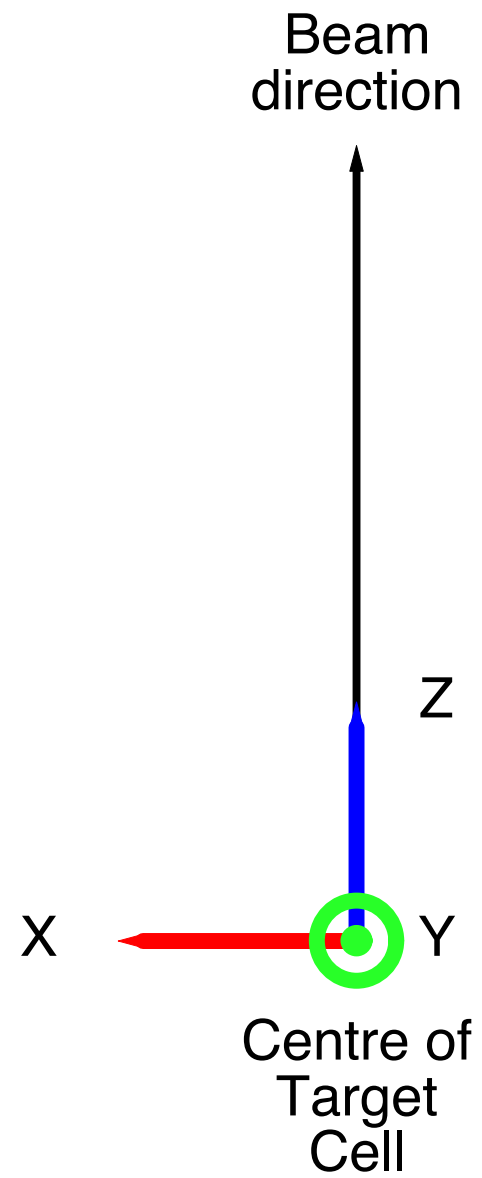
- operation sensitive to environmental variables
 - visualisation routines sense available options
 - user interface selects best possible option
- new reconstruction branch formed in SVN repository
 - Monet Carlo and reconstruction separate programs
 - reconstruction will operate on both MC and real data files
- installation instructions on web page (Bogdan Lobodzinski)
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OLYMPUS Monte Carlo

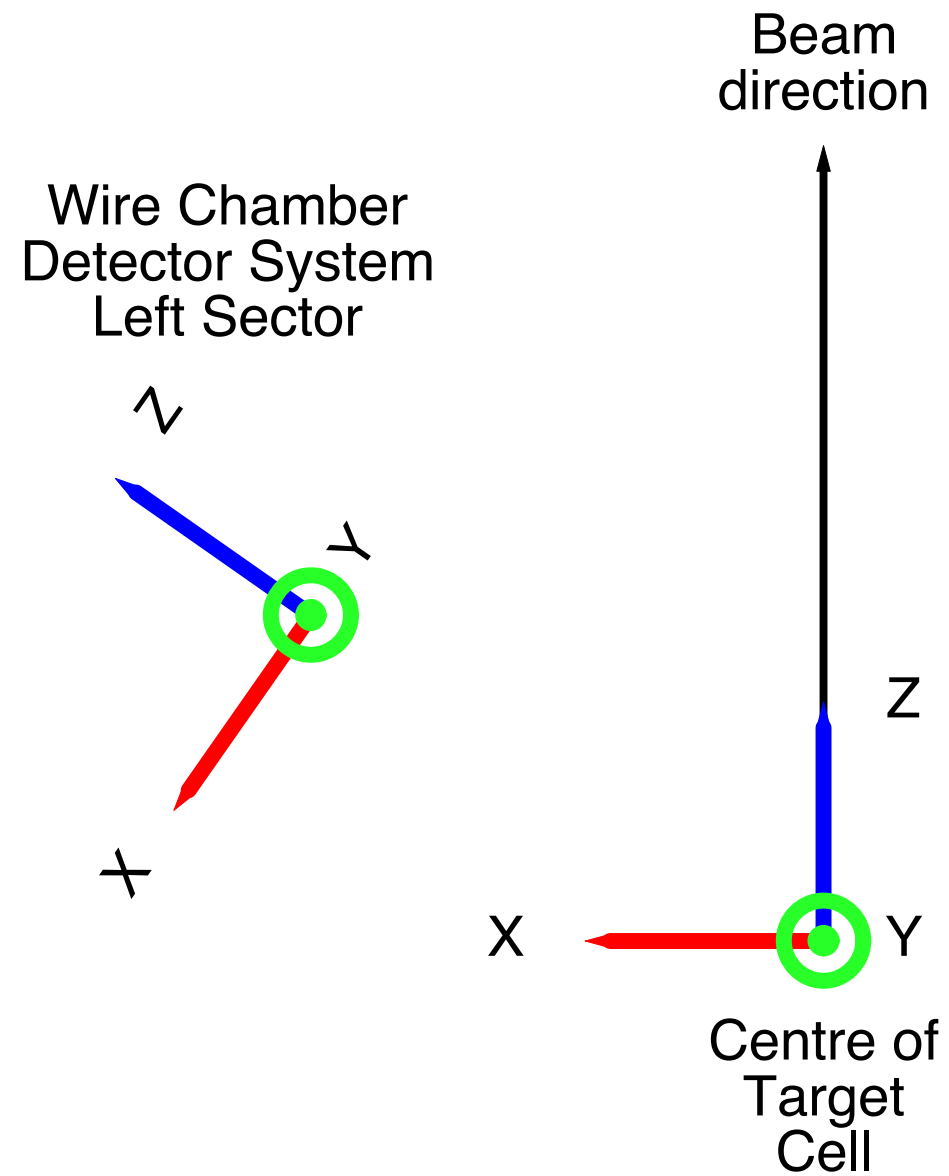
Manpower

- Bogdan Lobodzinski
 - implementing MWPC
 - will work on reconstruction
- Lauren Ice - ASU graduate student
 - writing pion generator
- Emma Tolley - MIT UROP student
 - will work on reconstruction
- Owen Mays - MIT UROP student
 - work on synchrotron radiation and beam halo studies
- Axel Schmidt - MIT graduate student
 - making the Monte Carlo more detailed
- Brian Henderson - MIT graduate student
 - details on target chamber, cell, beamline simulation - to learn GEANT4
- Colton O'Connor - MIT graduate student
 - GEM tracker design optimisation - to learn GEANT4
- Ozgur Ates - HU graduate student
 - Luminosity monitor studies
- More volunteers ??
 - graduate students, post-docs need to learn GEANT4 and ROOT to do analysis

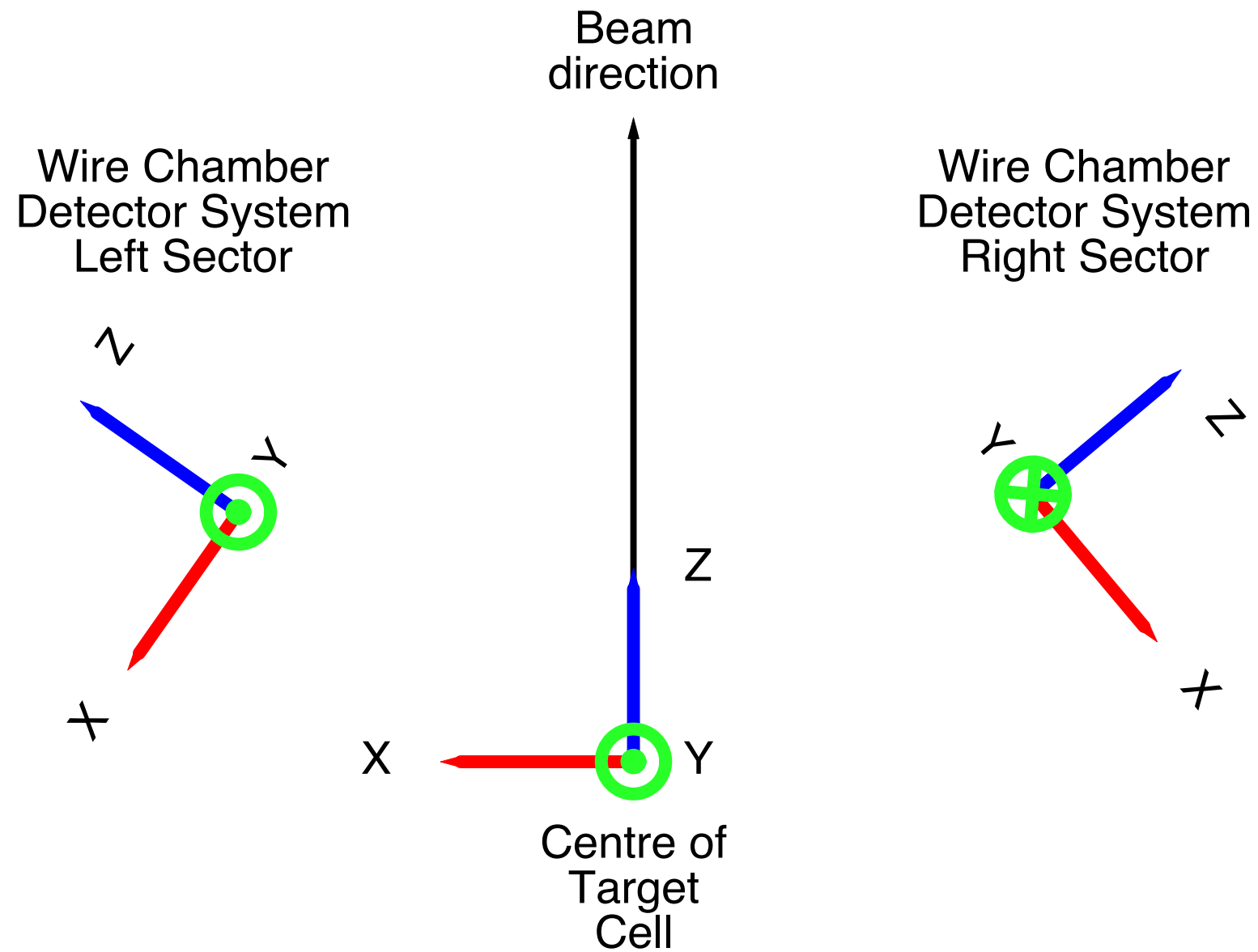
Monte Carlo Coordinate Systems



Monte Carlo Coordinate Systems



Monte Carlo Coordinate Systems



Next talk

OLYMPUS Wire Chambers - June 28



OLYMPUS Wire Chambers - Now

One chamber completely re-wired

- checking for broken wires, crossed wires, shorts

Second chamber 80 % re-wired

- 30 cells left to rewire
- need ~1 week
 - would finish this week except for this meeting

Thanks to:

- Lauren Ice - ASU
- Emma Tolley, Owen Mays, Mark Steadman - MIT
- Axel Schmidt and Colton O'Connor - MIT
- Mark Smith, Pablo de la Hoz - DESY summer students
- Agi Guddat - DESY
- Alexander Winnebeck - MIT
- Jurgen Diefenbach - HU

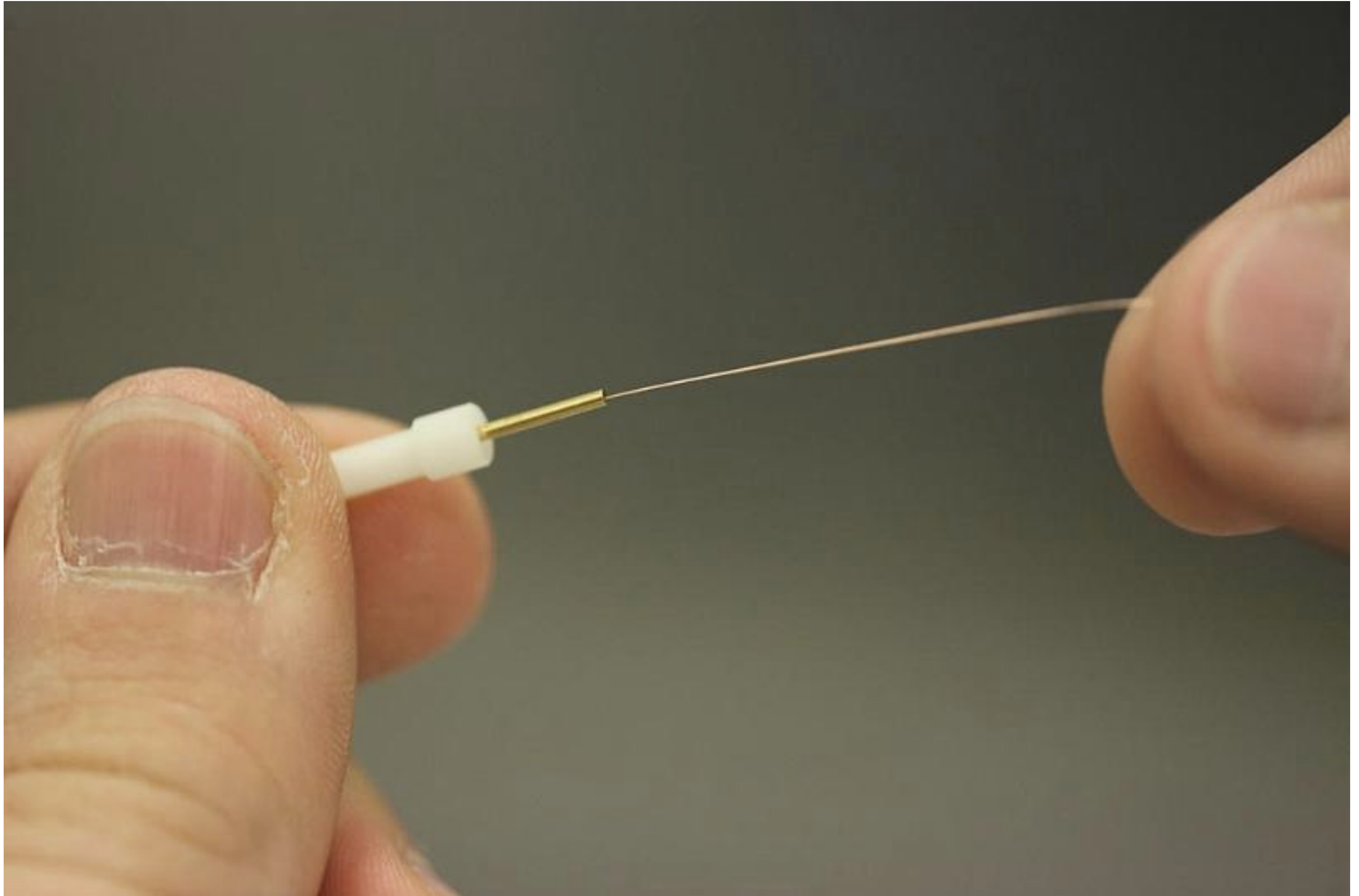
OLYMPUS Wire Chambers



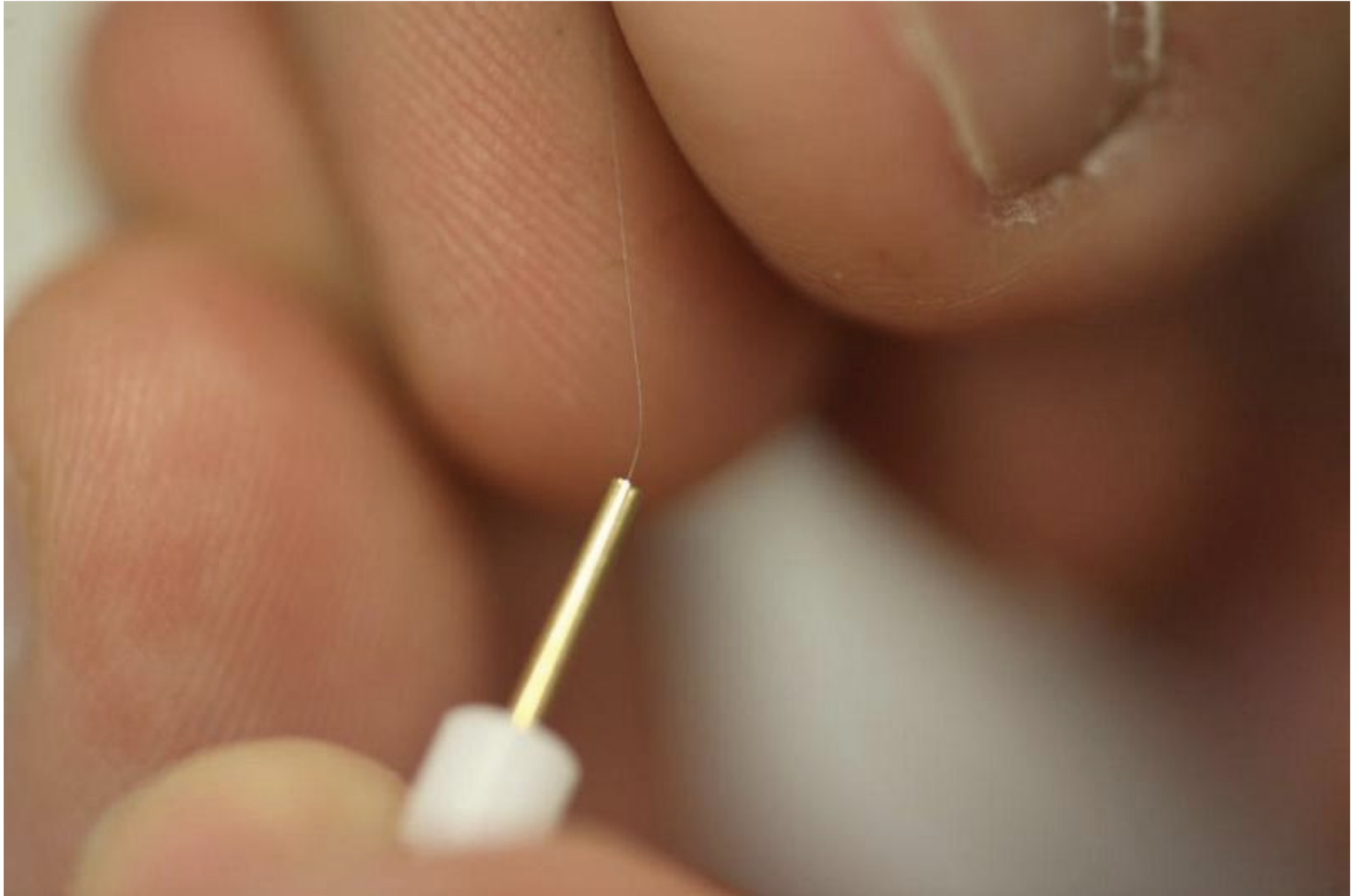
OLYMPUS Wire Chambers



OLYMPUS Wire Chambers



OLYMPUS Wire Chambers



OLYMPUS Wire Chambers

Expect to finish re-wiring next week

Test and repair faults until middle of September

Prepare front-end electronics

- work going on at MIT-Bates
- ready end of October

OLYMPUS GEM Tracker

Nothing new since last meeting

Returning to MIT middle of September

- work with Jim Kelsey and Jason Bessuille on mechanical design
- work on small GEM detectors to verify 2D readout concept
- prepare foil stretching test by end of year
- order foils and 2D readout spring 2011
- prepare first detector summer 2011

Next talk

OLYMPUS Shirts

We will order Polo shirts and T shirts for OLYMPUS

Cost:

- 15 € for the Polo shirts
- 8 € for the T shirts

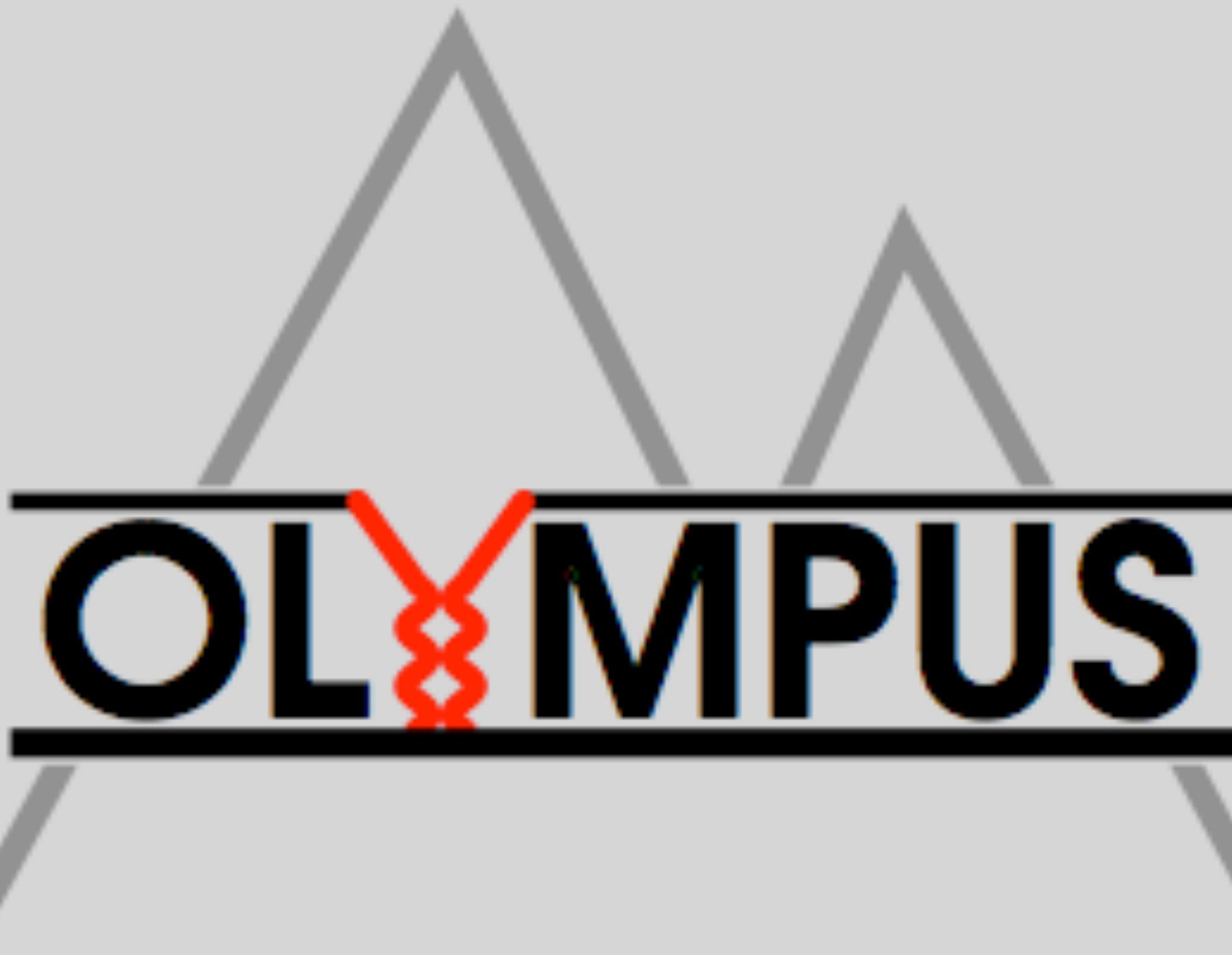
Will have the OLYMPUS logo

- over left breast on Polo shirt
- on chest on T-shirts

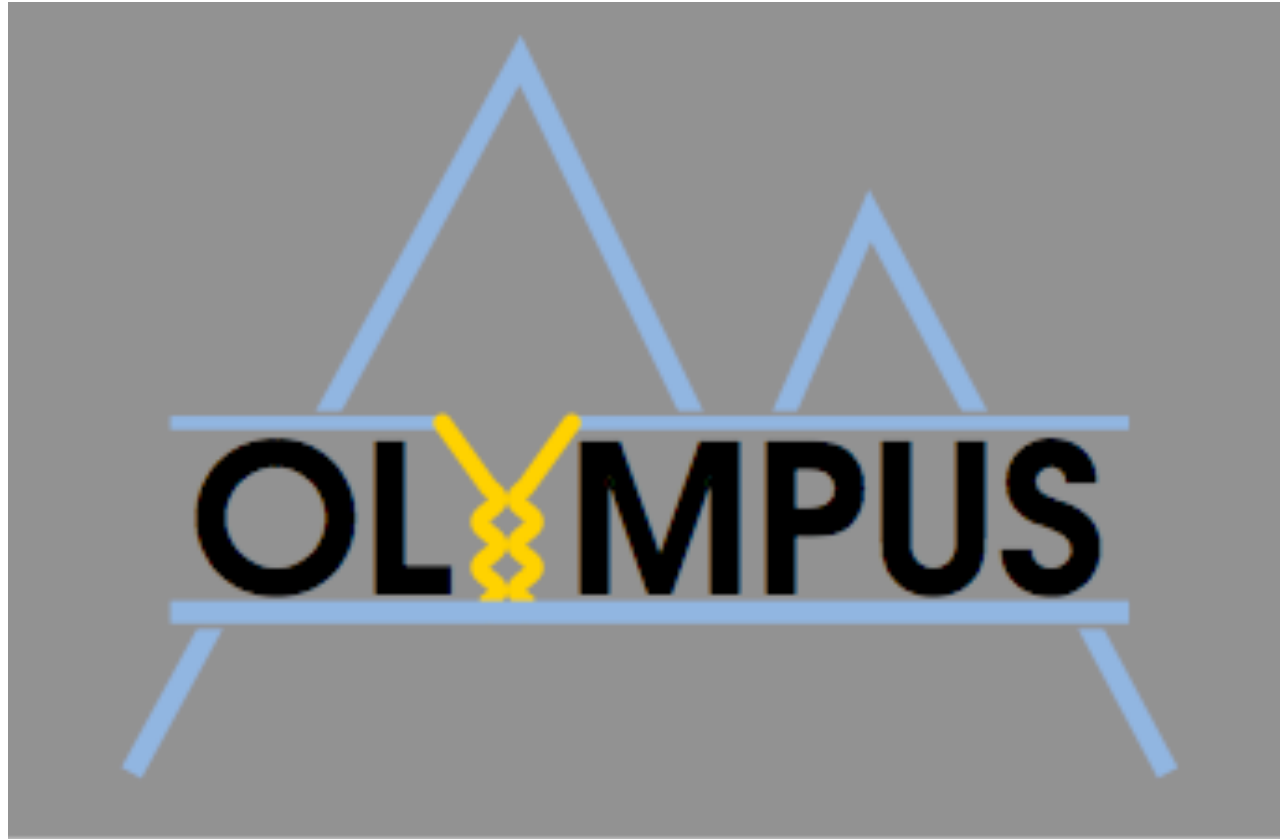
Logo font and line size increased to be more visible

We have chosen four colours for Polo and T shirts

Logo Design



Colour Choices



Need to know Quantities

Choose size and quantity

- Doodle poll - <http://www.doodle.com/pgkwbt29x4frvki>

	Size Small	Size Medium	Size Large	Size Extra Large	Polo Shirt - Maroon	Polo Shirt - Sport Gray	Polo Shirt - Navy	Polo Shirt - Charcoal	T Shirt - Heather Gray	T Shirt - Navy	T Shirt - Charcoal	T Shirt - Maroon
Douglas Hasell		OK				OK	OK	OK	OK	OK	OK	
Douglas Hasell				OK			OK					
Douglas Hasell				OK			OK					
Your name	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Count	0	1	0	2	0	1	3	1	1	1	1	

Save

Size:

- Small chest 34-36 inches for Polo, 36 inch for T shirt
- Medium chest 38-40 inches for Polo, 40 inches for T shirt
- Large chest 42-44 inches for Polo, 44 inches for T shirt
- Extra Large chest 46-48 inches for Polo, 48 inches for T shirt