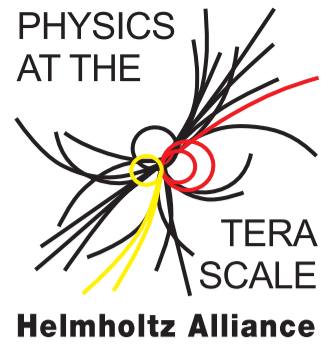


Helmholtz Alliance

PHYSICS AT THE TERASCALE



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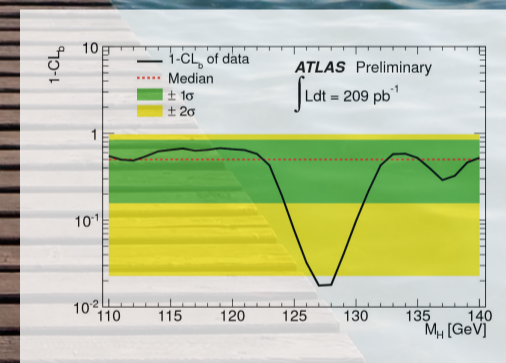
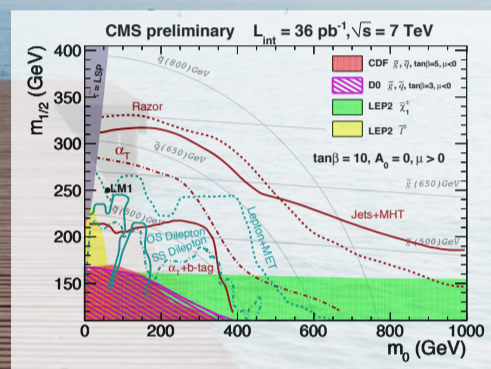
School on Data Combination and Limit Setting

4 - 7 Oktober 2011

DESY, Hamburg

The "School on Data Combination and Limit Setting" focuses on two topics of immense importance for the LHC: For many physics analyses, several channels are combined into one result. In a similar way results from different experiments are merged. The aim of this procedure is to increase the precision (in case of measurements of observables) or to arrive at stricter limits in the case of searches for new physics.

The school will introduce the basic concepts for data combination and limit setting and will deepen their understanding with practical examples, both educational and from real physics analyses. Furthermore, relevant tools will be shown. Discussions with experts complete the programme.



Mass of the Top Quark	
	July 2010 (* preliminary)
CDF-I dilepton	167.4 ± 11.4 ($\pm 10.3 \pm 4.9$)
DO-I dilepton	168.4 ± 12.8 ($\pm 12.3 \pm 3.6$)
CDF-II dilepton *	170.6 ± 3.8 ($\pm 2.2 \pm 3.1$)
DO-II dilepton *	174.7 ± 3.8 ($\pm 2.9 \pm 2.4$)
CDF-I lepton+jets	176.1 ± 7.4 ($\pm 5.1 \pm 5.3$)
DO-I lepton+jets	180.1 ± 5.3 ($\pm 3.9 \pm 3.6$)
CDF-II lepton+jets *	173.0 ± 1.2 ($\pm 0.7 \pm 1.1$)
DO-II lepton+jets *	173.7 ± 1.8 ($\pm 0.8 \pm 1.6$)
CDF-I alljets	186.0 ± 11.5 ($\pm 10.0 \pm 5.7$)
CDF-II alljets	174.8 ± 2.5 ($\pm 1.7 \pm 1.9$)
CDF-II track	175.3 ± 6.9 ($\pm 6.2 \pm 3.0$)
Tevatron combination *	173.3 ± 1.1 ($\pm 0.6 \pm 0.9$) ($\pm 0.6 \pm 0.9$)
	$\chi^2/\text{dof} = 6.1/10$ (81%)

The school fee is 50 Euro. Registration deadline is 15 September 2011.

For more details and in order to register, please go to the school home page or contact anacen@desy.de

<http://www.terascale.de/limits2011>