

## DZero IFC December 8 2009 meeting minutes

**Attendees (some by video):** **Iain Bertram** (Lancaster, UK), **Christian Schwanenberger** (Manchester, UK), **Etienne Augé** (IN2P3 – CNRS, France), **Tony Medland** (UK funding agencies), **Hanna Mahlke** (Germany, BMBF representative), **Klaus Ehret** (Germany, BMBF representative), **Volker Buescher** (Germany DZero consortium), **Bob Tschirhart** (Computing Division), **Stu Fuess** (Computing Division), **Bruce Baller** (PPD/FNAL), **Susan Blessing** (DZero Institutional Board Chair), **Qizhong Li** (DZero Algorithms and Computing coordinator), **George Ginther** (DZero Technical Integration Coordinator), **Dmitri Denisov** (DZero Spokesperson), **Vlada Simak** (Czech Technical University, Czech Republic), **Gregorio Bernardi** (IN2P3, French groups representative), **Greg Bock** (FNAL, Associate Director for Research), **Andrey Schukin** (Institute for High Energy Physics, Russian Ministry of Science), **Yuri Yatsunenko** (Joint Institute for Nuclear Research, Dubna), **Brajesh Choudhary** (Delhi University, India), **Sudeshna Banerjee** (Tata Institute of Fundamental Research, India), **Milos Lokajicek** (Institute of Physics, Czech Republic), **Miroslav Cech** (Czech Technical University, Czech Republic).

### Agenda

08:45 Working Breakfast/Discussions

09:15 [Welcome and Fermilab program](#) G. Bock

09:45 [Review of the DZero physics results and future plans](#) D. Denisov

10:25 Coffee

10:55 [DZero operations](#) G. Ginther

11:15 [DZero Computing](#) Q. Li

11:35 Statements from Agencies and Discussion

12:15 Working Lunch/Discussions

13:00 Adjourn

Discussions started during working breakfast at 8:45am

**Greg Bock** – described status and plans of the Fermilab program. Greg's talk is available from the link above.

**Dmitri Denisov** – summarized the experiment's major results over last year as well as described the future experimental program including data taking in 2011 and long term analysis plans. Importance and major benefits for the experiment from international cooperation have been highlighted. Dmitri's slides are available from the link above.

**George Ginther** – described successful, while challenging, data taking by the experiment with substantial increase in the data set and operation at high luminosities. George's slides are available from the link above.

**Qizhong Li** – provided review of the experiment computing program, including generation of Monte Carlo simulation. Qizhong's slides are available from the link above.

After formal presentations all meeting participants provided comments briefly summarized below.

**Tony Medland** (UK funding agencies) – all talks have been very interesting and he congratulates the DZero experiment with extremely successful physics program. There is funding crisis in UK public finances and all areas under a lot of pressure to live within planning guidelines. Two major effects on HEP budget: Current budget cycle (to large extent due to exchange rate between UK pound and Euro) is not good. Longer term we should not expect excellent funding. At best flat funding which will be challenge for STFC to keep many important programs progressing. STFC exercise is progressing over last 4 months to optimize future funding with outcome expected later in December 2009. Outcome of this exercise will be set of strategic priorities.

**Iain Bertram** (Lancaster, UK) representing UK/DZero groups – UK has grant panels every three years. Just finished recent cycle and DZero was rated very well. UK groups will continue active participation in the experiment including data taking, algorithms and physics analysis. Expected later in December STFC decision will be very important and UK groups will pass outcome to the experiment. UK groups are grateful to Fermilab for providing partial financial support for UK scientists working at Fermilab.

**Volker Buescher** (Germany DZero consortium) – creation of German DZero consortium helped greatly in securing funding from BMBF. New scientists are starting on DZero. Last year the consortium submitted three years funding request which is supported by BMBF. Plan to participate actively in physics analysis, especially in Higgs searches. Will continue to support Gridka for Monte Carlo events generation.

**Hanna Mahlke** (Germany, BMBF representative) – congratulations to DZero with excellent results! BMBF plans to continue support German groups working on the DZero experiment based on funding request submitted by the consortium.

**Andrey Schukin** (Institute for High Energy Physics, Russian Ministry of Science) – groups from Russian institutions on the DZero experiment are planning to continue active participation in the experiment in all areas: data taking, algorithms and data analysis. Funding for fiscal year 2010 is expected to be on the same level as in 2009. Russian groups appreciate Fermilab's help with local support of the visiting scientists.

**Milos Lokajcek** (Institute of Physics, Czech Republic) - grant to actively participate in the DZero experiment to 2012 is secured and we plan to ask for an extension of funding in the future. We plan to continue to participate in generation of Monte Carlo events on local farms and expect to add at least 50% to the currently available (for DZero) computing capacity.

**Miroslav Cech** (Czech Technical University, Czech Republic) – we will continue to provide strong support for our scientists involved in the DZero experiment, including 2011 Tevatron operation and data analysis beyond.

**Etienne Augé** (IN2P3 – CNRS, France) – IN2P3 and CNRS are planning to continue strong support of the DZero program and congratulate the experiment with excellent results obtained during last year.

**Sudeshna Banerjee** (Tata Institute of Fundamental Research, India) and **Brajesh Choudhary** (Delhi University, India) – TIFR has approved support for the DZero program till March 2012. Delhi and Panjab Universities groups programs and funding requests to continue participation in the DZero experiment have been recently reviewed and expected to be supported. Currently four students from Delhi University and Panjab University are at Fermilab and actively engaged in the experiment activities. More students may come to Fermilab in summer of 2010.

**Vlada Simak** (Czech Technical University, Czech Republic) – will continue on DZero actively in all areas of the experiment. Currently have four students and expect at least one more to join shortly. Grant is supported by the Ministry of Education with funding secured to 2012. Will consider extension of the funding in the future.

**Yuri Yatsunenکو** (Joint Institute for Nuclear Research, Dubna) – JINR group will continue active participation in support of the DZero muon system as well as analysis in B and QCD groups. Funding is secured for as long as Tevatron is running and data analysis is progressing. Thanks to Fermilab for partial support of JINR visitors.

**Gregorio Bernardi** (IN2P3, French groups representative) – continue to participate actively in all areas of the experiment. Computing and travel funding is guaranteed and new members are

joining DZero groups. Saclay group is strongly involved and we expect participation to continue including 2011 data taking and physics analysis beyond.

**Comment on 2011 Tevatron running** – IFC meeting participants supported Tevatron operation in 2011 with the goal to double the available data set and expressed strong support for participation in data taking and analysis of collected data.

**General** – all meeting participants agreed that having one IFC meeting per year is reasonable and we should plan to meet again in November of 2010 during DZero collaboration meeting.

The meeting ended at 12:15pm with working lunch with discussions of the IFC meeting talks and statements followed (100% of lunch boxes have been used).