US420 Meeting July 28th 2005: Introduction

US420 revised

Date/Time: Thursday 28 July 2005 from 10:00 to 11:00

Location: Fermilab
Chairperson: Mike Albrow

Thursday 28 July 2005

10:00	Introduction: status (05)	Mike Albrow (FNAL)
10:05	US420 and ATLAS status (10)	<u>Michael Rijssenbeek</u> (Stony Brook)
10:15	3D Si status (15')	Chris Kenney (SLAC)
10:30	Fast Timing Counters (10)	Mike Albrow (FNAL)
10:40	Missing Mass in Exclusive WW and ZZ events (10)	Mike Albrow (FNAL)
10:50	Discussion - What can we do? (15)	All

[last update: Wednesday 27 July 2005]

FP420: An R&D Proposal to Investigate the Feasibility of Installing Proton Tagging Detectors in the 420m Region at LHC

M. G. Albrow¹, T. Anthonis², M. Arneodo³, R. Barlow^{2,4}, W. Beaumont⁵, A. Brandt⁶, P. Bussey⁷, C. Buttar⁷, M. Capua⁸, J. E. Cole⁹, B. E. Cox^{2,*}, C. DaVià¹⁰, A. DeRoeck^{11,*}, E. A. De Wolf⁵, J. R. Forshaw², J. Freeman¹, P. Grafstrom^{11,+}, J. Gronberg¹², M. Grothe¹³, J. Hasi¹⁰, G. P. Heath⁹, V. Hedberg^{14,+}, B. W. Kennedy¹⁵, C. Kenney¹⁶, V. A. Khoze¹⁷, H. Kowalski¹⁸, J. Lamsa¹⁹, D. Lange¹², V. Lemaitre²⁰, F. K. Loebinger², A. Mastroberardino⁸, O. Militaru²⁰, D. M. Newbold^{9,15}, R. Orava¹⁹, V. O'Shea⁷, K. Osterberg¹⁹, S. Parker²¹, P. Petroff²², J. Pinfold²³, K. Piotrzkowski²⁰, M. Rijssenbeek²⁴, J. Rohlf²⁵, L. Rurua⁵, M. Ruspa³, M. G. Ryskin¹⁷, D. H. Saxon⁷, P. Schlein²⁶, G. Snow²⁷, A. Sobol²⁷, A. Solano¹³, W. J. Stirling¹⁷, M. Tasevsky²⁸, E. Tassi⁸, P. Van Mechelen⁵, S. J. Watts¹⁰, T. Wengler², S. White²⁹, D. Wright¹²

58 names (hopefully most will be active!) from 29 institutions (many 1's and 2's)

Brian Cox (Manchester & ATLAS) and Albert de Roeck (CERN & CMS) are contact persons. Cinzia DaVia (Brunel) is Technical Co-ordinator

Mike Albrow US420 July 28th 2005

I could not see official LHCC minutes, but Chair Sergio Bertolucci emailed to Albert:

Hallo Albert,

we briefly discussed your LOI in the LHCC, and a statement saying that we acknowledge the LOI and encourage you to proceed to a proposal will be explicitly mentioned in the minutes.

We have also appointed a referee for your LOI, Mario MARTINEZ-PEREZ from Universitat Autonoma Barcelona, who has worked on diffractive Physics at DESY and is (or has been) a convener of the QCD group of CDF.

Jos expressed some concern that there might be some distraction of resources from TOTEM, since there is a considerable overlap of the people signing the proposals. It was however not discussed in details. If you need more information, please do no hesitate to call me. All my best, Sergio

Mike Albrow US420 July 28th 2005

There will be a 2-day FP420 meeting at CERN Mon Aug 29th + Tue Aug 30th

There will be another FP420 collaboration meeting in December in Manchester, following the earlier meetings



http://glodwick.hep.man.ac.uk/conference/

Simulations: Monika Grothe could not attend today but will be at FP420. She sent me:

I can summarize briefly the situation of the L1 studies:

We are finalizing the numbers I've presented already a number of times, in the FP420 meeting and in the last CMS/TOTEM LOI meeting.

Beyond that, we're trying to expand our efficiency studies to diff processes beyond the Higgs. We are considering mainly single diffractive production of jets, W's, Z's. We're still discussing which channels are worth looking at. Suggestions would be very welcome.

We found that Pomwig is available fully interfaced to CMS cmkin. We're testing it in the moment. Once we've decided which channels to generate, we'll start generating 100K event samples in Madison.

As to correlating xi(p) and the Et and eta of the jets: It's being looked at, but I don't have any results yet, I'm afraid.

Radiation Levels - calculations:

Igor Rahkno was to do this, ~ 2 man months.

He transferred to another group --- can educate/consult but not do it.

A NUMI MARS expert could *help* someone from FP420

Interesting project for student e.g.

Mechanics (Microstation? Hamburg Pipe? Pivot? Brand X?)

Was on hold until LOI submitted. Still on hold!
We might be able to make a prototype at Fermilab but
it needs someone other than me (at least)
with mechanical expertise and an interest in taking responsibility.
Is there someone among us ...?

Mike Albrow US420 July 28th 2005