





Participating Groups:

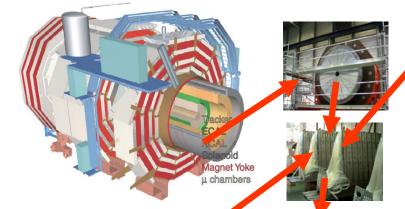
Bogazici University^a



•Bogazici University: Erhan Gülmez (group leader), Engin Isiksal (Marmara University), Mithat Kaya (Kafkas University), Suat Özkorucuklu (Süleyman Demirel University)

^bCukurova University: Gülsen Önengüt (group leader), Eda Eskut, Aysel Kayis-Topaksu, Ayse Polatöz-Kuzucu, Isa Dumanoglu, Sefa Ertürk (Nigde University) -METU (Middle East Technical University): Ramazan Sever (group leader), Akif Esendemir, Meltem Serin-Zeyrek, Mehmet Zeyrek, Kerem Cankocak (Mugla University)

Our main contribution in CMS is in HCAL subdetector, especially in the HF Calorimeter part. Turkish industry built the strongbacks, ferrules, and the backplanes of the HF Calorimeter.

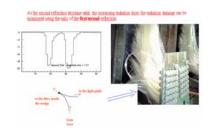


RADIATION AMAGE STUDIES

have demonstrated that, after receiving 100 MRad the plastic cladded doses. fibers suffer similar radiation damage to much more expensive quartz cladded fibers. Hence, CMS HF group decided to use plastic coated guartz fibers since they had the same performance and resulting in important savings for CMS.

ONLINE RADIATION

with In collaboration University of Iowa team, we Gold Award in 2003 for have designed, tested, and their excellent job in installed a system for monitoring producing the HF the radiation damage of the HF Calorimeter parts. Calorimeter fibers during the data run.

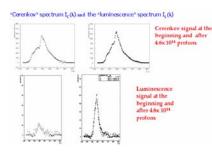


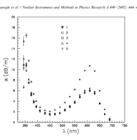
LUMINESCENCE We reported the first observation of the luminescence effect in the fibers (fibers producing light even after the irradiation).

CMS GOLD AWARD

DAMAGE MONITORING EAE of Istanbul and MFK of the Bursa received the CMS







Attennuation measured for five types of fibres for 100 MRad dose.

PHYSICS

In paralel to our construction, installation, and commissioning responsibilities, we are preparing for the data run in 2007. Training of physicist to offline analysis use CMS packages and simulation studies which use these packages are underway at all participating institutions.

All the Turkish groups at CERN have been supported mainly by the Scientific and Technical Research Council of Turkey (TÜBITAK).