Workshop "The Future of Ultra-relativistic Heavy Ion Collisions", celebrating 20 years of collaboration between Central China Normal University and University of Bergen

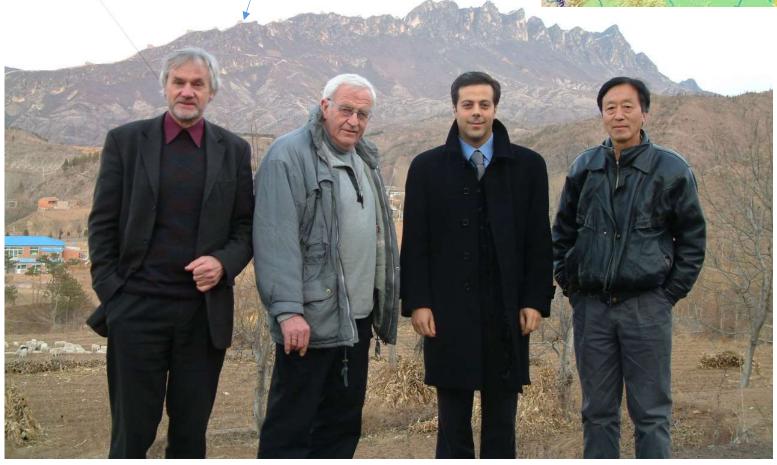
Organizers: D. Roehrich and Daicui Zhou

Department of Physics and Technology, University of Bergen, Norway, August 23 - 24, 2019.

November 2002: ALICE/PHOS meeting in Wuhan, after a stay in Bejing with several very interesting excursions, including a visit in the Forbidden City.

View of the Great Wall of China (at a distance)





Prof. Shuhua Zhou, CIAE, Beijing



Wuhan; excursion to companies in the «Optics Valley»



Participants of the first ALICE/PHOS meeting in Wuhan!

ALICE/PHOS Electronics Meeting

Nov. 20-21, 2002,

Institute of Particle Physics, Central China Normal University, Wuhan, China

Participants

Daicui Zhou Institute of Particle Physics, Central China Normal University

zdc@iopp.ccnu.edn.cn

Hongyan Yang Institute of Particle Physics, Central China Normal University

yanghy@iopp.ccnu.edu.cn Hongyan.Yang@cern.ch

Xiarong Institute of Particle Physics, Central China Normal University

xrwang@gsu.edu wangxr@iopp.ccnu.edu.cn

Kc Chen Huazhong University of Science and Technology (HUST)

cnoriko@public.wh.kb.cn

Duanquan Xu HUST

xuduanquan@yahoo.com.ch

Qingxia Li HUST, Department of Electronics and Information

qingxia_li@hust.edu.cn

Fangquing Duan HUST, Department of Electronics and Information

duanfq@yahoo.com

Yingzhuang Liu HUST, Department of Electronics and Information

zhuang liu@263.net zhuang liu@yahoo.com

Bernhard Skaali Department of Physics, University of Oslo

t.b.skaali@fys.uio.no

Arne Klovning Department of Physics, University of Bergen

Arne.Klovning@fys.uib.no

Luciano Musa CERN

Luciano.Musa@cern.ch

The above list may not be complete, please notify me. Also a number of students attended the meeting.

It was also planned that Iouri Sibiriak, Kurchatov Institute, Moscow, should have participated However, he had not received visa in time for the meeting. By email he had submitted a design document on the PHOS FEE, see also the PHOS FEE WWW page.

Prior to the meeting, on Nov. 20th, Musa, Klovning and Skaali visited Huazhong University of Science and Technology, the Han Wang company, and companies in Wuhan's Optical Valley.

Agenda

Prof. Xu Cia Opening address

Bernhard Skaali, Oslo PHOS Electronics and Readout: requirements, design and implementation

Luciano Musa, CERN Introduction to the ALTRO chip: 16-ch A/D converter and Digital Processor

First ideas on the PHOS readout electronics based on the TPC FEE

Fangquing Duan, HUST Some ideas of PHOS FEE

Qingxia Li, HUST General data processing platform

Arne Klovning, Bergen PHOS Geometry, mechanics, planning

Prof. Daicui Shou The ALICE application to the Chinese funding agency, and closing address

The above talks served as baseline for an highly interactive and detailed discussion, covering both the specific characteristics of the VFEE (preamplifier/shaper/amplifier) electronics, as well as the requirements, functionalities and implementation ideas for the complete PHOS electronics and readout chain.

Dacui Zhou: the Chinese ALICE application

The application covers both electronics development, including production of preamplifiers, and mechanics. The level of funding was not mentioned, but it was referred to an initial project phase with 2 persons from HUST over a period of 1 year who could start on the design fairly soon.

Dacui Zhou referred to a recent meeting in Beijing. Although not conclusive, there seems to be a basis for some optimism regarding the outcome. More discussions with Prof. Shuhua regarding the structure of the application will take place before the application is submitted.

The application is not yet finalized, but the final version will be submitted in December. A decision can be expected relatively quickly after December, probably already in January.

Also planned for December is a high-level meeting to discuss the policy for high energy physics activities in China.





Welcome and opening by Prof. Xu Cai, CCNU







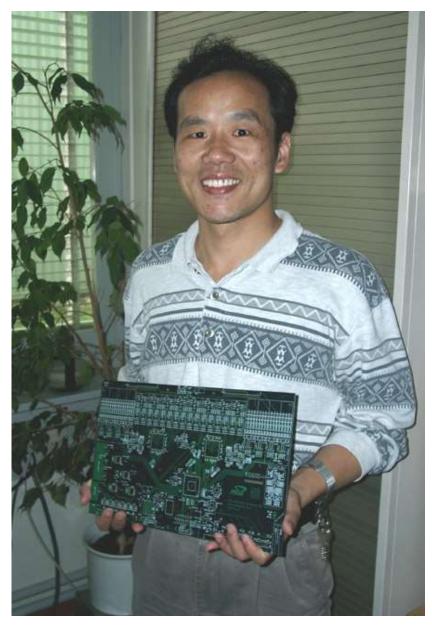




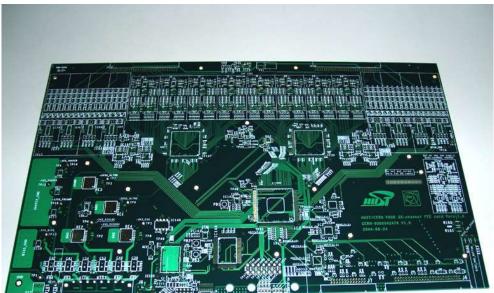




Celebrating the success of the first China/PHOS meeting, host Prof. Xu Cai, CCNU



Qingxia with first HUST/CERN PHOS FEE card



As a result of the meeting, the FEE cards for the PHOS were produced by a company in Wuhan. The card was designed by Rui Pimenta, Hans Müller and Iori Sibiriak. A slightly modified version is also used by EMCal.



May 2006: the FECs ready for shipping to CERN