

## CBM contributions to DPG Spring Meeting HK, Bochum 2018

HK 2.4 Mo 15:00 HZO 60

Reconstruction of neutral pions and direct photons at CBMRICH detector via conversion — ·Ievgenii Kres, Karl-Heinz Kampert, and Christian Pauly for the CBM-Collaboration — University of Wuppertal

Gruppenbericht HK 6.1 Mo 14:00 HZO 80

The CBM Time-of-Flight wall — ·Ingo Deppner and Norbert Herrmann for the CBM-Collaboration — Physikalisches Institut der Universität Heidelberg

HK 6.2 Mo 14:30 HZO 80

Untersuchung von RPC-Auflösungen mit kosmischer Strahlung — ·Philipp Weidenkaff für die CBM-Kollaboration — Universität Heidelberg

HK 7.4 Mo 15:00 HZO 90

Towards an EPICS based Detector Control System for the CBM Micro Vertex Detector — ·Philipp Klaus for the CBMMVD-Collaboration — Goethe-Universität, Frankfurt

HK 7.5 Mo 15:15 HZO 90

Evaluation of Innovative Cooling Concepts with High-Performance Carbon Materials for Vertex Detectors operated in Vacuum — ·Daniela Mijatovic for the CBM-MVDCollaboration — Goethe-Universität

HK 9.6 Mo 18:00 HZO 60

Perspectives on strangeness physics with the CBM experiment at FAIR — ·Iouri Vassiliev<sup>1</sup>, Maksym Zyzak<sup>1</sup>, and Ivan Kisel<sup>2,3</sup> for the CBM-Collaboration — <sup>1</sup>GSI Helmholtzzentrum für Schwerionenforschung GmbH — <sup>2</sup>Frankfurt Institute for Advanced Studies — <sup>3</sup>Goethe-Universität Frankfurt

HK 9.7 Mo 18:15 HZO 60

Application of Cellular Automaton track finder in TPC detectors — ·Grigory Kozlov<sup>1,2</sup>, Yuri Fisyak<sup>3</sup>, Ivan Kisel<sup>1,4</sup>, and Maksim Zyzak<sup>4</sup> for the CBM-Collaboration — <sup>1</sup>FIAS, Frankfurt am Main, Germany — <sup>2</sup>JINR, Dubna, Russia — <sup>3</sup>BNL, Upton, USA — <sup>4</sup>GSI, Darmstadt, Germany

HK 12.1 Mo 16:30 Audimax H1

Status of the Transition Radiation Detector for the CBM Experiment — ·Philipp Kähler for the CBM-Collaboration — Institut für Kernphysik, WWU Münster, Germany

HK 12.2 Mo 17:00 Audimax H1

Track reconstruction on CBM-TRD testbeam data — ·Felix Fidorra for the CBM-Collaboration — Institut für Kernphysik, WWU Münster, Germany

HK 12.3 Mo 17:15 Audimax H1

Automated gaintable measurements for the CBM-TRD — ·Johannes Beckhoff for the CBM-Collaboration — Institut für Kernphysik, WWU Münster, Germany

HK 12.4 Mo 17:30 Audimax H1

Test beam results of prototypes for the CBM-TRD at DESY and GIF++ — ·Florian Roether for the CBM-Collaboration — Institut für Kernphysik, Frankfurt, Deutschland

HK 12.5 Mo 17:45 Audimax H1

Status of the Readout Chain for the CBM-TRD Experiment — ·Cruz de Jesus Garcia Chavez for the CBM-Collaboration — Institut für Kernphysik, WWU Münster, Germany

Gruppenbericht HK 13.1 Mo 16:30 HZO 80

Data preprocessing of the DAQ system for TOF detector in CBM experiment — ·Wenxiong Zhou<sup>1,2</sup>, Pierre loizeau<sup>1</sup>, Jochen Fruehauf<sup>1</sup>, Junfeng Yang<sup>1</sup>, David Emschermann<sup>1</sup>, and Walter Muller<sup>1</sup> for the CBM-Collaboration — <sup>1</sup>GSI Helmholtz Center for Heavy Ion Research, Darmstadt, Germany — <sup>2</sup>Chongqing University, Chongqing, China

HK 13.2 Mo 17:00 HZO 80

Hit reconstruction for the CBM-TRD — ·Philipp Munkes for the CBM-Collaboration — Institut für Kernphysik, WWU Münster, Germany

Gruppenbericht HK 14.2 Mo 17:00 HZO 90

Towards the CBM-MVD: The Group Report — ·Michal Koziel — Goethe-Universität, Frankfurt

HK 14.3 Mo 17:30 HZO 90

Updates on the Micro Vertex Detector Geometry for the CBM - Experiment — ·Philipp Sitzmann for the CBM-MVDCollaboration — Goethe-Universität Frankfurt

HK 14.4 Mo 17:45 HZO 90

News on Rad Hardness studies for the CBM MVD — ·Tobias Bus for the CBM-MVD-Collaboration — Goethe Universität

HK 20.5 Di 15:15 HZO 80

Toward a demonstrator of the free-streaming data acquisition system for the CBM experiment at FAIR — ·Pierre-Alain Loizeau and David Emschermann for the CBM-Collaboration — GSI Helmholtzzentrum für Schwerionenforschung GmbH

HK 20.6 Di 15:30 HZO 80

Beam test results for new DIRICH readout chain for MAPMTs and MCPs — ·Vivek Patel, Joerg Foertsch, Karl - Heinz Kampert, and Christian Pauly for the CBM-Collaboration — Bergische Universitaet Wuppertal, Gauss Strasse 20, Wuppertal

HK 21.4 Di 15:00 HZO 90

Time resolution of the DIRICH MAPMT readout with and without WLS coverage \* — ·Adrian Amatus Weber for the CBM-Collaboration — Justus-Liebig-Universität Gießen

HK 21.5 Di 15:15 HZO 90

Optimierung einer Diskriminatorschwelle der DIRICH MAPMT Ausleseketten\* — ·Jörg Förtsch für die CBMkollaboration — Bergische Universität Wuppertal

HK 23.7 Di 18:15 HZO 60

Multi-differential analysis of  $\Sigma$  hyperons in the CBM experiment — Ivan Kisel<sup>1,2,3</sup>, ·Pavel Kisel<sup>1,3,4</sup>, Peter Senger<sup>3</sup>, Iouri Vassiliev<sup>3</sup>, and Maksym Zyzak<sup>3</sup> for the CBM-Collaboration — <sup>1</sup>Goethe-Universität Frankfurt—<sup>2</sup>Frankfurt Institute for Advanced Studies — <sup>3</sup>GSI Helmholtzzentrum für Schwerionenforschung GmbH — <sup>4</sup>Joint Institute for Nuclear Research

HK 28.4 Di 17:15 HZO 90

Concept and design of an alignment monitoring system for the CBM RICH mirrors\* — ·Jordan Bendarouach for the CBM-Collaboration — II. physikalisches Institut, Gießen

HK 31.3 Mi 14:45 HZO 60

Physics performance studies for the CBM-TRD at SIS100 energies — ·Etienne Bechtel — IKF, Germany, Frankfurt

Gruppenbericht HK 46.1 Do 14:00 HZO 60

Status of the CBM Experiment — ·Christian Sturm for the CBM-Collaboration — GSI Helmholtzzentrum für Schwerionenforschung GmbH

HK 46.6 Do 15:30 HZO 60

Time-based reconstruction of free-streaming data in the CBM experiment. — ·Valentina Akishina<sup>1</sup>, Iouri Vassiliev<sup>2</sup>, Ivan Kisel<sup>1,2,3</sup>, and Maksym Zyzak<sup>2</sup> for the CBM-Collaboration — <sup>1</sup>Goethe-Universität Frankfurt am Main — <sup>2</sup>GSI Helmholtzzentrum für Schwerionenforschung GmbH — <sup>3</sup>Frankfurt Institute for Advanced Studies

HK 46.7 Do 15:45 HZO 60

The Kalman filter based track fit in TPC detector—·Artemiy Belousov<sup>1,2</sup>, Yuri Fisyak<sup>4</sup>, Ivan Kisel<sup>1,2,3</sup>, and Maksym Zyzak<sup>3</sup> for the CBM-Collaboration—<sup>1</sup>Goethe University Frankfurt—<sup>2</sup>FIAS, Germany — <sup>3</sup>GSI, Germany — <sup>4</sup>Brookhaven National Laboratory

HK 52.9 Do 16:30 Audimax Foyer

Application of the Hydrodynamic Event Generator THESEUS to CBM — ·Elena Volkova for the CBM-Collaboration — The University of Tübingen, Tübingen, Germany

HK 52.11 Do 16:30 Audimax Foyer

Results of mini-CBM mRICH simulations\*—·Gregor Pitsch for the CBM-Collaboration — Justus Liebig Universität Gießen

HK 52.12 Do 16:30 Audimax Foyer

Performance Studies on Light Nuclei and Hypernuclei Measurements with the TRD in the CBM-Experiment — ·Susanne Gläsel for the CBM-Collaboration — Goethe-Universität Frankfurt

HK 52.38 Do 16:30 Audimax Foyer

Monitoring the CBM-TRD Performance with a <sup>55</sup>Fe-Source — ·Dennis Spicker for the CBM Collaboration — Institut für Kernphysik, Goethe Uni Frankfurt

HK 52.46 Do 16:30 Audimax Foyer

Ladder Assembly for the Silicon Tracking System of the CBM Experiment at FAIR — ·Shaifali Mehta for the CBM Collaboration— Universität Tübingen, Tübingen, Deutschland—GSI Helmholtzzentrum für Schwerionenforschung, Darmstadt, Deutschland

HK 56.5 Fr 15:15 HZO 60

Reconstruction of short lived particle spectra with KF Particle Finder — ·Maksym Zyzak<sup>1</sup>, Ivan Kisel<sup>1,2,3</sup>, Pavel Kisel<sup>1,3,4</sup>, and Iouri Vassiliev<sup>1</sup> for the CBM-Collaboration — <sup>1</sup>GSI Helmholtzzentrum für Schwerionenforschung — <sup>2</sup>Frankfurt Institute for Advanced Studies — <sup>3</sup>Goethe-Universität Frankfurt — <sup>4</sup>Joint Institute for Nuclear Research

HK 57.2 Fr 14:30 HZO 80

Performance for anisotropic flow measurements of the future CBM experiment at FAIR — ·Viktor Klochkov<sup>1,2</sup> and Ilya Selyuzhenkov<sup>1,3</sup> for the CBM-Collaboration — <sup>1</sup>GSI Helmholtzzentrum für Schwerionenforschung, Planckstraße 1, Darmstadt, Germany — <sup>2</sup>Goethe University Frankfurt, Max-von-Laue-Straße 1, Frankfurt am Main, Germany — <sup>3</sup>National Research Nuclear University MEPhI (Moscow Engineering Physics Institute), Kashirskoe highway 31, Moscow, 115409, Russia

Gruppenbericht HK 61.1 Fr 14:00 HZO 90

The Silicon Tracking System of the CBM Experiment at FAIR — ·Evgeny Lavrik for the CBM-Collaboration — Universität Tübingen, Tübingen, Deutschland

HK 61.2 Fr 14:30 HZO 90

Thermal Management of the CBM Silicon Tracking System — ·Kshitij Agarwal for the CBM-Collaboration — Physikalisches Institut - Eberhard Karls Universität Tübingen, Tübingen, Germany

HK 61.3 Fr 14:45 HZO 90

Report on Track Based Alignment Procedures of the CBM Silicon Tracking Detector — ·Susovan Das for the CBM Collaboration — Physikalisches Institut, Eberhard Karls Universität Tübingen

HK 61.5 Fr 15:15 HZO 90

Radiation Hardness Test of Silicon Sensors under Realistic Conditions at the Tübingen Van-de-Graaf Accelerator — ·Eduard Friske for the CBM-Collaboration — Universität Tübingen, Tübingen