

Krakow, July 31, 2018

**Cyclotron Center Bronowice IFJ PAN
Announcement about the IAC-2018 Meeting**

Dear User of CCB,

The CCB International Advisory Committee (IAC) Meeting is planned to be held on August 24-25, 2018 at IFJ PAN. The Meeting will be devoted to discuss the status and perspectives of the facility, evaluate the reports from the performed measurements and consider possible updates of the experiments that were accepted previously but have not yet been run. The reports will be presented to the IAC on Friday, 24th of September, afternoon. Please confirm by email to Adam.Maj@ifj.edu.pl whether and who will give the presentation.

IAC will also evaluate new Letters of Intent.

In case you plan to propose such a letter, please send it to Adam.Maj@ifj.edu.pl before August 21. The letters of intent should aim at proposing new lines of research possibly based on new or existing detection systems. They should also include description of physics goals of the proposed studies as well as technical details of detection setup and considerations regarding its mounting on the beam line.

At present, two main detection systems are available at CCB:

1) The gamma detection system (made of two PARIS clusters, four large LaBr₃ detectors and/or HECTOR array) coupled to the Kraków Triple Telescope Array (KRATTA), which is mounted inside the large scattering chamber under vacuum:

- a) PARIS cluster – a cluster made of 9 LaBr₃-NaI or CeBr₃-NaI phoswich detectors for detection of low- and high-energy gamma rays (up to 40 MeV), with high energy and time resolution;
- b) HECTOR – an array of 8 large volume BaF₂ detectors for detection of high-energy γ rays (up to 25 MeV);
- c) KRATTA – a multi-modular array for charged-particle detection (which can be used in different configurations); it covers a broad energy range of protons that can be detected, from ~ 3 to 260 MeV, and provides mass resolution up to mass number $A \sim 10$.

2) The Big Instrument for Nuclear Data Analysis (BINA) – this detector is particularly suited to study the $p+d$ breakup reaction. BINA is composed of two major parts: the forward wall, which measures the energy, the position, the polarization of proton and deuteron at scattering angles in the range 10° - 35° , and the backward ball part, which covers the rest of the polar angle up to 165° .

CCB International Advisory Committee

Faical Azaiez (iThemba Labs, South Africa), Angela Bracco (University of Milano and INFN, Italy), Bogdan Fornal (IFJ PAN, Kraków, Poland), Zsolt Fülöp (ATOMKI, Debrecen, Hungary), Muhsin Harakeh (KVI-CART, Groningen, Netherlands) – CHAIR, Robert Janssens (ANL, Argonne, USA), Stanisław Kistryn (Jagiellonian University, Kraków, Poland), Marek

Lewitowicz (GANIL, Caen, France), Adam Maj (IFJ PAN, Kraków, Poland), Krzysztof Rusek (Warsaw University, Poland), Hideyuki Sakai (RIKEN, Japan), Christoph Scheidenberger (GSI, Germany), Nicolae Victor Zamfir (IFIN-HH, Bucharest, Romania), Wiktor Zipper (University of Silesia, Katowice, Poland)

Please feel free to contact:

Maria Kmieciak (maria.kmieciak@ifj.edu.pl) with questions concerning PARIS, LaBr₃ or HECTOR;

Jerzy Łukasik (jerzy.lukasik@ifj.edu.pl) with questions concerning KRATTA;

Adam Kozela (adam.kozela@ifj.edu.pl) with questions concerning BINA;

Mirek Zieblinski (mirosław.zieblinski@ifj.edu.pl) with all technical and infrastructure questions.

With questions that are more general, please contact Adam Maj (adam.maj@ifj.edu.pl).

More information at <http://experimentsccb.ifj.edu.pl/>

We are looking forward to interesting ideas for research at CCB IFJ PAN.

Sincerely

Muhsin Harakeh – chair of IAC

Bogdan Fornal – deputy chair of IAC

Adam Maj – coordinator of nuclear physics experiments at CCB