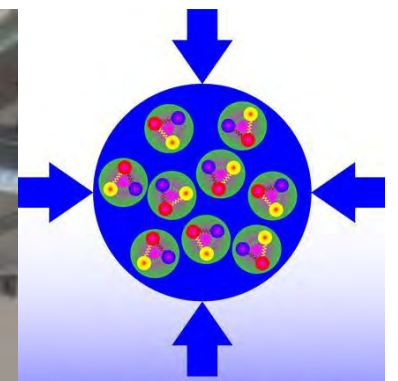


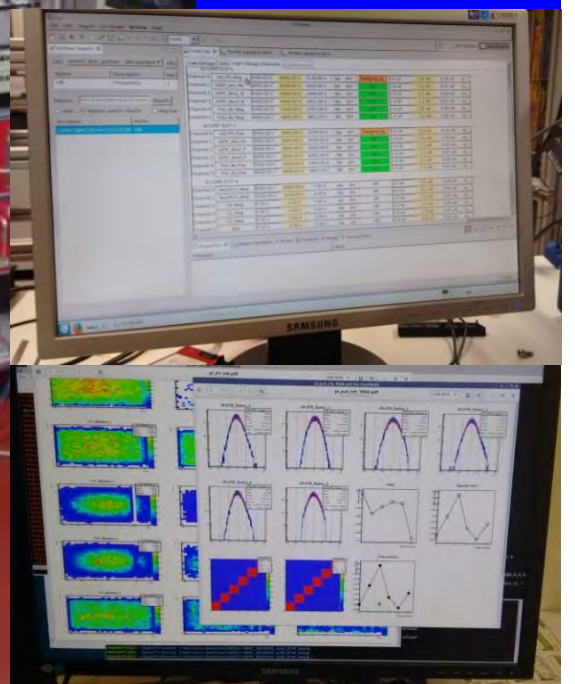


μCBM, Heidelberg



CBM

Compressed
Baryonic
Matter
experiment
at FAIR



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Preface

This 12th issue of the CBM Progress Report continues the good tradition, to annually document the efforts and activities of the CBM Collaboration towards the realization of their experimental project – the Compressed Baryonic Matter Experiment at FAIR, giving insight into the various achievements in 2017 by a collection of comprehensive articles.

The CBM Progress Report 2017 shows a large variety of activities carried during the last year. We made substantial progress in defining our startup configuration and got confirmations by all steering bodies that we are on the right track including acquiring the demanding resources.

We developed and pursued our short and midterm projects, HADES@SIS18, eTOF@STAR, STS,PSD@BM@N and last but not least mCBM@SIS18 to a level that we have a chance to profit technologically in terms of detector/experiment preparation as well as scientifically in terms of shaping the physics program.

We are in the process of restructuring our project organization to allow for more synergies and more integration of current and new members.

This report shows the growing momenta inside the CBM Collaboration to turn from the planning to the construction phase in the coming years.

We want to thank all the reviewres who helped putting together this report, as well as the editors of the previous editions from who we inherited the technical and practical expertise to realize this document. We thank all authors for their contribution to this report and to an exciting experimental project.

Darmstadt, March 2018

Ilya Selyuzhenkov and Alberica Toia, editors
Norbert Herrmann, spokesman of the CBM Collaboration

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