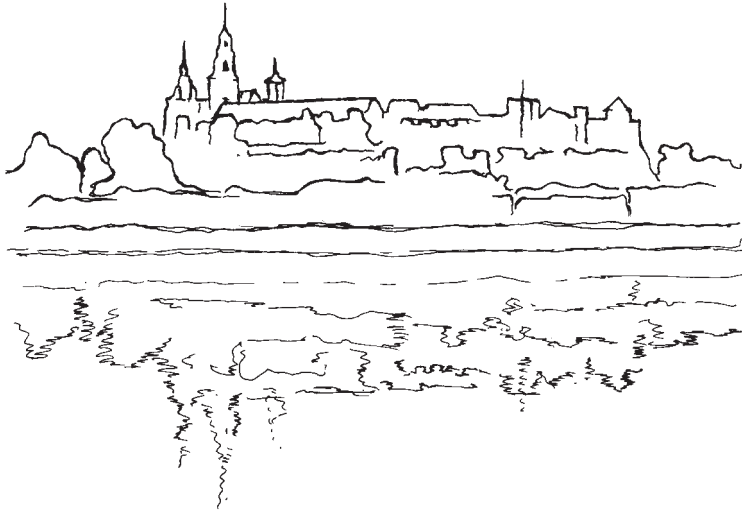


M E S O N 2 0 1 2

PROCEEDINGS OF THE
12th INTERNATIONAL WORKSHOP ON
PRODUCTION, PROPERTIES
AND INTERACTION OF MESONS
31 May – 5 June 2012, Cracow, Poland

organized by
Jagiellonian University, Cracow
Forschungszentrum Jülich GmbH, Jülich
INFN-LNF, Frascati
IFJ-PAN, Cracow

endorsed by



Edited by
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Preface

The 12th International Workshop on Meson Production, Properties and Interaction (MESON 2012) took place in Cracow, Poland, from 31 May to 5 June 2012, with the participation of nearly 200 experimental and theoretical physicists from 20 countries.

The Meson Conferences aim to provide an overview of the present status of meson physics in various hadronic and electromagnetic reactions, including structure and interaction of hadrons, fundamental symmetries, and exotic systems, in both experimental and theoretical aspects. In particular, the conference program covered the broad spectrum of experiments using the major accelerators in the field: hadron machines, electron facilities and electron-positron colliders.

A wide spectrum of problems in the light meson sector was presented, including preliminary results on tests of fundamental symmetries and the search for phenomena beyond the Standard Model. Heavier mesons were also extensively discussed, as well as kaon physics: deeply bound kaonic nuclear states and kaonic atoms.

Future facilities, ongoing and planned facility upgrades, and many experimental programs on existing installations were presented. Great attention was addressed to the status and perspectives of theoretical research on mesons, including QCD inspired models, like effective field theory or lattice QCD.

In total, there were 40 plenary talks and 64 parallel session talks, plus 47 posters.

We gratefully acknowledge the contributions provided by our home institutions, organizers of the conference, Forschungszentrum Jülich, INFN Frascati, Jagiellonian University, Cracow, and Institute of Nuclear Physics, PAN, Cracow. Further support came from the sponsors: EU project HadronPhysics 2, Thomas Jefferson National Accelerator Facility, National Instruments and the Municipality of Cracow (KRK2B).

The International Advisory Committee enormously helped to prepare an interesting, high level programme. Smooth running of the meeting was granted by the help of the Local Organizing Committee. Last but not least we thank all the participants for attending the conference and making it a success.

Carlo Guaraldo, Stanisław Kistryn, Hans Ströher

October 2012

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