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Nagaitsev
Pasquinelli

BEAM COOLING AND RELATED TOPICS

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International Workshop on Beam Cooling and Related Topics - COOL05

Galena, Illinois, U.S.A. 18 – 23 September 2005

EDITORS
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CONTENTS

GENERAL TOPICS

STOCHASTIC COOLING

ELECTRON COOLING

MUON COOLING

ELECTROSTATIC RINGS

LASER COOLING

TRAPS

Preface

This was the eighth meeting in the series of beam cooling workshops and the first to be held in the United States since the early 1980's. Participation included 87 engineers and scientists from 30 institutions around the globe. Presentations highlighted beam cooling as a mainstream part of accelerator facilities worldwide. In particular, electron cooling was extensively covered in the program. Normally used at low beam energies, the Fermilab Electron Cooling project for the Recycler was successfully commissioned shortly before this meeting. Eight GeV antiprotons are routinely being cooled with a 4.3 MeV electron beam. The future of beam cooling also looks promising as the FAIR project at GSI in Darmstadt, Germany is in the approval stages. Ionization cooling experiments are taking place at a number of facilities in support of Muon colliders and neutrino sources. The future of beam cooling looks to be bright.

Sergei Nagaitsev
Ralph J. Pasquinelli
COOL05 Co-chairmen

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