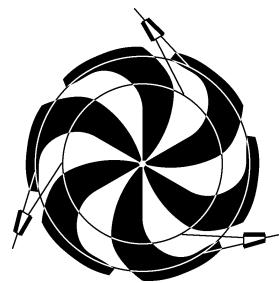


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CANADA'S NATIONAL LABORATORY
FOR PARTICLE AND NUCLEAR PHYSICS

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UNDER A CONTRIBUTION FROM THE
NATIONAL RESEARCH COUNCIL OF CANADA

JULY 2000

The contributions on individual experiments in this report are outlines intended to demonstrate the extent of scientific activity at TRIUMF during the past year. The outlines are not publications and often contain preliminary results not intended, or not yet ready, for publication. Material from these reports should not be reproduced or quoted without permission from the authors.

Appendix A

PUBLICATIONS

This appendix lists publications describing work performed at TRIUMF and also work conducted elsewhere by TRIUMF personnel and TRIUMF users.

Journal Publications

Particle, Nuclear and Atomic Physics

W.T.H. van Oers, *Constraints on a parity-conserving/time-reversal-non-conserving interaction*, Int. J. Mod. Phys. **E8**, 513 (1999) [TRI-PP-99-42, hep-ph/9912454].

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Theses

M.R. Dawdy, *Muonium in gallium nitride* (M.Sc., Physics, Texas Tech.).

B. Jamieson, *Calibration of the CHAOS spectrometer for small scattering angles* (M.Sc., Physics and Astronomy, UBC).

M. Lachinov, *Design studies on the axial injection system of the CYCLONE-44 cyclotron* (M.Sc., Physics and Astronomy, UBC).

M. Nobes, *The semileptonic decays of the B_c meson in the quark meson effective theory* (M.Sc., Physics, SFU).

F. Sobratee, *M11 channel at TRIUMF, another surface μ^+ source* (M.Sc., Physics, Alberta).

J. Wendland, *Improved particle identification at HERMES and polarised valence quark distributions in the proton* (M.Sc., Physics, SFU).

T. Baker, *Measurement of scattering lengths using $K\pi 3$ decay* (Ph.D., Physics, Saskatchewan).

P. Khaustov, *Doubly-strange hypernuclear production in E885 at the AGS* (Ph.D., Physics, Carnegie Mellon).

H.J. Tran, *Single-particle and collective effects of cubic nonlinearities in the beam dynamics of proton synchrotrons* (Ph.D., Physics and Astronomy, UBC).