

R&D OF A HIGH-PERFORMANCE DIRC DETECTOR FOR USE IN AN ELECTRON-ION COLLIDER

by

S. Lee Allison
MS in Physics

A Dissertation Submitted to the Faculty of
Old Dominion University in Partial Fulfillment of the
Requirements for the Degree of

DOCTOR OF PHILOSOPHY

PHYSICS

OLD DOMINION UNIVERSITY
month that the degree is to be awarded

Approved by:

Charles Hyde (Director)

member 1 (Member)

member 2 (Member)

ABSTRACT

R&D OF A HIGH-PERFORMANCE DIRC DETECTOR FOR USE IN AN ELECTRON-ION COLLIDER

S. Lee Allison
Old Dominion University, 2016
Director: Dr. Charles Hyde

text of abstract goes here

Copyright, 2016, by S. Lee Allison, All Rights Reserved.

ACKNOWLEDGEMENTS

TABLE OF CONTENTS

	Page
LIST OF TABLES	vi
LIST OF FIGURES	vii
Chapter	
1. WHAT IS AN ELECTRON-ION COLLIDER?	1
2. WHAT IS A DIRC?	2
3. ANALYSIS AND SIMULATION	3
4. RESULTS.....?	4
BIBLIOGRAPHY	5
APPENDICES	
A.	6
VITA	7

LIST OF TABLES

Table

Page

LIST OF FIGURES

Figure

Page

CHAPTER 1

WHAT IS AN ELECTRON-ION COLLIDER?

CHAPTER 2

WHAT IS A DIRC?

CHAPTER 3

ANALYSIS AND SIMULATION

CHAPTER 4

RESULTS....?

BIBLIOGRAPHY

- [1] G. E. Brown and A. D. Jackson, *The Nucleon–Nucleon Interaction* (North–Holland, Amsterdam, 1976).

APPENDIX A

VITA

S. Lee Allison
Department of Physics
Old Dominion University
Norfolk, VA 23529

The text of the Vita goes here.