

Case Western Reserve University

*Hough Transform Tracking and Data Analysis in
MiniMax*

A Senior Thesis Submitted to
The Department of Physics

By
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This senior thesis is the culmination of over two years of work which began in March of 1993. It is by no means a complete description of the work done; however, it seeks to present the salient aspects of tracking and data analysis at a level that can be understood by the novice while still providing details of interest to the expert. This work was only possible with the support and encouragement of the T-864 collaboration.

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LIST OF ABBREVIATIONS

AVHT	Arbitrary-Vertex Hough Transform
dcc	disoriented chiral condensate
DCA	distance of closest approach
DST	Data Summary Tape (file)
EOF	End Of File
FNAL	Fermi National Accelerator Laboratory
LSF	least-squares fit
MWPC	Multiple Wire Proportional Chamber
PbC	lead converter
PCA	point of closest approach