

Tomographic Reconstruction Assessed Coursework The Central Slice Theorem

School of Physics and Astronomy University of Birmingham

> Josh Wainwright UID:1079596

Module Supervisor: Prof. D. Parker

Date: March 2013

Contents

1	Introduction	1
2	Tomographic Reconstruction	1

1 Introduction

2 Tomographic Reconstruction

Tomographic reconstruction involves the creation of an image of an object taken through a particular slice by recombining the data collected from a set of line integrals across that object in the plane of interest. The word tomography comes from the Greek *tomos* meaning section and *graphein* meaning to write, so tomography ios simply writing 'parts' of an object, in this case an image of a single plane through that object.