Maths 223 Lecture Notes Winter 2014

Lectures by William Cavendish Transcribed by Hannah Lee, ... Typeset by Calem Bendell, ...

Contents

I Cauchy-Schwarz 3

First Lecture

I. Cauchy-Schwarz

Given

$$\forall u, v \in \mathbb{R}^{n} | u \cdot v | \le ||u|| \cdot ||v|| \tag{1}$$