



# SJÄLVSTÄNDIGA ARBETEN I MATEMATIK

MATEMATISKA INSTITUTIONEN, STOCKHOLMS UNIVERSITET

## Gröbner Bases and Elimination in Macaulay 2

av

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# Gröbner Bases and Elimination in Macaulay 2

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## Abstract

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# 1 Introduction

hello world



## 2 What is Algebraic Geometry?

### 2.1 Polynomials

### 2.2 Affine Varieties

### 2.3 Rings and Ideals

### 2.4 Ordering Polynomials

### 2.5 An Analytic Bridge

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## 3 Gröbner Bases

### 3.1 Hilbert Bases

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