# The Magpie manual

Wouter Franssen & Bas van Meerten

Version 0.0

## **Contents**

1	Introduction	1
2	Sample definition	1
3	Pulse sequence definition	1
4	Simulation background	1
5	Contact	1

#### 1 Introduction

Magpie (waar staat het voor?) is a program that simualtes an NMR spectrometer environment. It can load sample and pulse sequences, and simulate the outcome of NMR measurements. The goal of the program is to be used in teaching, allowing students a first introduction to practical NMR.

## 2 Sample definition

Sample files for Magpie need to be in a specific definition. They need to be text files with .txt extension.

### 3 Pulse sequence definition

### 4 Data output

### 5 Simulation background

Magpie uses a classical simulator, so no quantum effects are included. J-couplings are therefore included only as their weak coup; ling limit, and no coherence between the J-states exists.

#### 6 Contact

To contact the magpie team write to ssnake@science.ru.nl.