

# An Introduction to Clam-Spark (CS) Notes

## 1 Introduction

The aim of the CS-Note series is to provide a mechanism for people working on the Clam-Spark project to communicate their research ideas internally. People should feel confident to write CS-Notes without fear of their embryonic ideas being ridiculed or hijacked. Ensuring that CS-Notes remain internal (see footnote) is therefore crucial to the success of the series.

## 2 Some History

The idea of CS-Notes is based upon the “Blue Book Note” series devised by Alan Bundy back in the 1970’s within the Mathematical Reasoning Group (MRG) at Edinburgh AI. The Blue Book Note series has played, and continues to play, a central role in the communication and development of ideas within the MRG. Many of the key contributions made by the MRG to the Automated Reasoning community can be traced back directly to the Blue Book Note series.

## 3 Future Work

CS-Notes should cover all aspects of the Clam-Spark project, *e.g.* proof techniques, implementation details, successful proofs, failed proofs, challenge problems, literature surveys, system descriptions, comparative studies, theoretical studies, empirical studies, ...

My experience, along with many others, is that a series of internal notes plays an important part in the formation of new ideas. It is not uncommon to begin writing a note which argues for  $X$  and ends up concluding  $\neg X$ . Some final words of advice, *keep them short* and *write many!*

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\*Notes in this series are for  $\epsilon$ -baked ideas, for  $1 \geq \epsilon \geq 0$ . Only exceptionally should they be cited or distributed outwith the CLAM-SPARK project.