Graphical Interfaces for Computer Algebra Systems

GiANT - Graphical Algebraic Number Theory

KANT Group, TU-Berlin

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GiANT Design Philosophy

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- **Efficient**
  - **Intuitive**
  - **Easy to Use**
  - **Save Time = *Accelerate the rate of information exchange between the user and the computer***
    - **Automate routine tasks**
    - **Present information *Clearly and Concisely***

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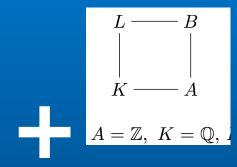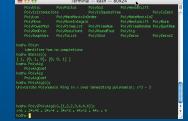   - **Present information *Clearly and Concisely***
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- **Interesting**

$$= \text{GiANT}$$

$$A = \mathbb{Z}, \ K = \mathbb{Q},$$

$$+$$

$$+$$

$$+$$

What is GiANT?

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- **GiANT is a Desktop Environment for working with Number Fields**

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- **Architecture**
  - **KASH 2.5 (KANT)**
  - **Java 2**
  - **Cross-Platform**

Demonstration

Questions & Feedback

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- **Next Steps**
  - **Expose more KASH Functionality**
  - **Performance**
    - **Optimization**
    - **Threads, Parallelism**
  - **Lattices**

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- **We would like to hear from you**
  - **giant@aneesh.mailcan.com**

Acknowledgements

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