## The use of notebooks in mathematics instruction.

# What is manageable? What should be avoided?

## A field report after 10 years of CASapplication

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### **ABSTRACT**

Computer Algebra Systems (CAS) have been changing mathematics instruction requirements for many years. Since the tendency of using CAS in mathematics instruction has been rising for decades and reports have often been positive, the implementation of notebook/netbook classes seems to be the consequent next step of mathematics instruction supported by computers. Experiences that have been made with the use of CAS in PC-rooms can be transformed directly into the classroom. Hence the use of CAS is no longer limited to certain rooms. The permanent availability of the notebook/netbook with installed CAS offers the chance to realize these concepts that have already been approved with the use of CAS so far.

This speech shall show what these concepts could look like and that the use of notebooks/netbooks is not only the further development of teaching in PC-classes. Examples from personal experience in teaching will especially show meanders and thought-provoking impulses in order to support teachers finding their way into teaching mathematics instruction in notebook/netbook classes successfully.

### **Keywords**

CAS-based curricula and teaching methods, Dispensable and indispensable mathematical, skills and abilities, Classroom examples using CAS, Future of CAS in Education.