

Morning Discussion: **Software**

Tuesday, August 23, 2016

Which software tools are most useful for performing computations in *Combinatorial Algebraic Geometry*? Why?

Many of us are familiar with **Macaulay2**. Some of us are familiar with **Singular**. What are your favorite packages within these systems?

Lots of math is supported by general-purpose computer algebra systems such as **Sage**, **Maple**, **Mathematica**, or **Magma**. Do you use any of these regularly? For research or for teaching? How often and in which context?

Other packages that are useful for our community include

Bertini, **PHCpack**, **4ti2**, **Polymake**, **Normaliz**, **GFan**

What are these and what do they do? Who developed them and why?

Does visualization matter in algebraic geometry?
Have you tried software like **Surfex**?

Which software tool do you want to learn today?