

1030-65-311      **Andrew Sommese\*** ([sommese@nd.edu](mailto:sommese@nd.edu)), Department of Mathematics, University of Notre Dame,  
Notre Dame, IN 46556-4618. *Recent Results in Numerical Algebraic Geometry*. Preliminary report.

Following a brief overview of Numerical Algebraic Geometry, some recent work will be presented:

1. work with J. Hauenstein and C. Wampler on regeneration, a new equation-by equation approach to solving large polynomial systems; and
2. work with D. Bates, J. Hauenstein, and C. Wampler on adaptive multiprecision and Bertini, our new software for doing numerical algebraic geometry computations.

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