## lichigan Math Club Thursday at 4pm in the Nesbitt Room

Free Pizza and Pop

The fundamental theorem of algebra, Bezout's theorem, and coloring surfaces

David Speyer

Abstract for 6 April

If f(x) is a polynomial of degree d, it then it has d roots over the complex numbers (subject to some caveats). If g(x,y) and h(x,y)are polynomials of degree a and b, then g(x,y) = h(x,y) = 0 has ab complex roots (subject to more caveats). We will prove these theorems by coloring, first the plane, and then other surfaces.



