

1117-11-395 **Jeremy Rouse** and **David Zureick-Brown*** (dzb@mathcs.emory.edu), 400 Dowman Drive,
Atlanta, GA 30322. *Progress on Mazur's program B.*

I'll discuss recent progress on Mazur's "Program B", including my own recent work with Jeremy Rouse which completely classifies the possibilities for the 2-adic image of Galois associated to an elliptic curve over the rationals, and will also discuss a large number of other very recent results by many authors. (Received January 18, 2016)