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**Darrin M Doud\*** ([doud@math.byu.edu](mailto:doud@math.byu.edu)), Department of Mathematics, Brigham Young University, 292 TMCB, Provo, UT 84601. *Galois representations and arithmetic cohomology*. Preliminary report.

We discuss recent work on a conjecture of Ash, Doud, Pollack and Sinnott relating Galois representations with the cohomology of arithmetic groups. (Received August 14, 2006)