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Robert E. Kottwitz* (kottwitz@math.uchicago.edu), Department of Mathematics, University of Chicago, 5734 University Avenue, Chicago, IL 60637. *Survey of affine Deligne-Lusztig varieties.*

The Deligne-Lusztig varieties associated with reductive groups over finite fields have been much studied and are relatively well understood. Although less is known about their affine cousins, associated with reductive groups over fields of Laurent power series, there has nonetheless been substantial progress made towards understanding them in the last few years, and this talk will attempt to survey the results obtained to date. (Received August 06, 2007)