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**Ellen Kirkman** ([kirkman@wfu.edu](mailto:kirkman@wfu.edu)) and **James Kuzmanovich\*** ([kuz@wfu.edu](mailto:kuz@wfu.edu)), Department of Mathematics, Wake Forest University, Winston-Salem, NC 27109, and **James Zhang** ([Zhang@math.washington.edu](mailto:Zhang@math.washington.edu)). *Reflections of AS-Regular Algebras, II*. Preliminary report.

There are several possible generalizations of a reflection of a commutative polynomial ring to a ‘reflection’ of an AS-regular algebra. It is shown that any such generalization should include that the trace have a pole of the right order at  $t = 1$ . This is used to show that several classes of AS-regular do not have any regular fixed rings. (Received September 20, 2005)