1077-AJ-1994 **Jody Azzouni*** (Jody.Azzouni@tufts.edu). *The relationship of derivations in artificial languages to ordinary rigorous mathematical proof.* Preliminary report.

The relationship between formal derivations, which occur in artificial languages and mathematical proof, which occurs in natural languages is explored. The suggestion that ordinary mathematical proofs are abbreviations or sketches of formal derivations is rejected. The alternative suggestion that the existence of appropriate derivations in formal logical languages is a norm for ordinary rigorous mathematical proof is explored and qualified. (Received September 21, 2011)