1037-14-33 **Zach Teitler*** (zteitler@tamu.edu), Department of Mathematics, Mailstop 3368, Texas A&M University, College Station, TX 77843. *Multiplier ideals of hyperplane arrangements.*

Multiplier ideals are local invariants of singularities which have gained attention in algebraic geometry, commutative algebra, and complex geometry in recent years. Multiplier ideals enjoy many amazing properties and have been used to solve several long-standing problems, but are hard to compute. M. Mustaţă has computed the multiplier ideals of hyperplane arrangements using jet schemes, obtaining a very combinatorial formula. In this talk we give an alternate proof via a log resolution, which is simpler and allows us to consider non-reduced arrangements (that is, arrangements with multiplicities). By applying the idea of wonderful models introduced by De Concini–Procesi, we also simplify the result. (Received January 07, 2008)