1053-13-277   **William Travis Trentham*** (`william.trentham@ndsu.edu`), Fargo, ND 58102. *On the Integral Closure on an Antimatter domain.*

In this talk we will be taking a look at the class of rings known as antimatter domains, i.e, domains which admit no irreducibles. More specifically, we would like to know if the integral closure of an antimatter domain (AMD) might admit atoms and, if so, to what extent. For example, can the integral closure of an AMD be atomic or even Noetherian? We will consider this question and point out where we ought NOT be looking for atoms in such integral closures. (Received September 07, 2009)