

1135-VS-1344      **Frank Patane\*** (fpatane@samford.edu), Samford University, 800 Lakeshore Dr, Homewood, AL 35209. *On a Generalized Identity Connecting Theta Series Associated with Discriminants  $\Delta$  and  $\Delta p^2$ .*

When the discriminants  $\Delta$  and  $\Delta p^2$  are idoneal, there is a well known theorem which connects the theta series associated to binary quadratic forms of each discriminant. In this talk we discuss the result of a recent paper which generalizes this theorem by allowing  $\Delta$  and  $\Delta p^2$  to be non-idoneal. We state this theorem and give an example of an identity which connects the theta series associated to a single binary quadratic form of discriminant  $\Delta$  to a theta series associated to a subset of binary quadratic forms of discriminant  $\Delta p^2$ . (Received September 21, 2017)