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Jonathan P. Hanke* (jonhanke@math.uga.edu), Department of Mathematics, University of Georgia, Athens, GA 30602. *On the Berkovich-Jagy S -genus identities.*

We will discuss some very recent conjectures of Alexander Berkovich and Will Jagy which express linear combinations of certain theta series of ternary quadratic forms in terms of a single theta function (for the sum of three squares), how they arose, and various techniques for understanding them. (Received March 31, 2010)