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**Heon Kim\*** ([hkim@suno.edu](mailto:hkim@suno.edu)), 47 Echezeaux Dr., Kenner, LA 70065. *Infinite class of new sign ambiguities.*

In this paper, we study the multiplicative relations of Gauss sums, investigate a new type of multiplicative relations, and decide explicitly ambiguous signs. (Received September 21, 2010)