

1067-AC-1058      **H. M. Stark\***, Department of Mathematics - 0112, UCSD, 9500 Gilman Drive, La Jolla, CA  
92093. *Landau's Class Number Theorem: A Gem That Wasn't*. Preliminary report.

In the 1930's, Heilbronn proved the Gauss conjecture that there are only a finite number of complex quadratic fields with a given class-number. In the papers that followed in rapid succession, the culminating result was a theorem of Siegel which has never been improved. However, in 1918, Landau published two remarkable papers in which all the key ingredients of Siegel's theorem appear. (Received September 17, 2010)