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**Bernhard Heim\*** ([heim@mpim-bonn.mpg.de](mailto:heim@mpim-bonn.mpg.de)), Bonn, Germany. *Arithmetic Trace Formula.*

Special values of automorphic L-functions attached to newforms on  $GL(2)$  are mysterious objects in number theory. In this talk we discuss a formula which relates special values of the Hecke, the Rankin and the triple L-function in the convergent and non-convergent domain. (Received September 17, 2007)