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**Laura E. Turner\*** (lturner@ivs.au.dk), Department of Science Studies, Aarhus Universitet, C.F. Møllers Allé, bygn. 1110, 8000 Aarhus C, Denmark. *Roles of an International Journal: Acta Mathematica and Italian Mathematicians, 1882–1927*. Preliminary report.

Gösta Mittag-Leffler's international renown during the late 19th- and early 20th centuries stemmed primarily from his role as the editor of *Acta Mathematica*, considered the first truly international journal of mathematics with respect to both readers and contributors. This is also the main source of his fame today. *Acta* is considered to have been an important journal during Mittag-Leffler's lifetime, and accordingly, historians of mathematics have devoted their efforts to studies of its foundation and administration and to some extent Mittag-Leffler's efforts in promoting international communication in mathematics under its auspices during his editorship, from 1882 to 1927. What we lack, however, are analyses of the ways in which *Acta Mathematica* and Mittag-Leffler as its editor functioned within and between mathematical communities and networks, the ways in which the journal was actually utilized, and the roles it played. This paper provides one such study, focusing on the the uses of and values ascribed to *Acta Mathematica* by Italian mathematicians during Mittag-Leffler's lifetime. (Received September 22, 2010)