

1096-01-1003 **Harold M. Edwards*** (edwards@cims.nyu.edu), Courant Institute, 251 Mercer St., New York, NY 10012. *Abel's Version of Abel's Theorem.*

Abel first stated what has become known as “Abel’s Theorem” in 1826, when the theory of functions of a complex variable was in its infancy and the theory of Riemann surfaces had not been invented. The talk will explain in elementary terms how Abel formulated the theorem without these theories that are central to the modern formulations. It generalizes to a wide class of transcendental functions—now called Abelian integrals—what Abel saw as the essential property of elliptic integrals, namely, the addition law on elliptic curves. (Received September 12, 2013)