

Meeting: 1003, Atlanta, Georgia, SS 3A, AMS-MAA Special Session on History of Mathematics, I

1003-01-271 **William Dunham*** (wdunham@muhlenberg.edu), Department of Mathematical Sciences,
Muhlenberg College, 2400 W. Chew Street, Allentown, PA 18104. *Grin and Baire It: The Original
Baire Category Theorem.*

Although students of today tend to encounter the Baire category theorem in graduate analysis or topology, the original proof from Rene Baire's 1899 dissertation was quite elementary, occupying but a single paragraph. In this talk we set the stage, run through his argument, and mention a few consequences that Baire drew from his remarkable proposition. (Received September 06, 2004)