

1125-01-254

William Dunham* (bdunham@brynmawr.edu). *Did Euler Scoop Möbius?*

The Möbius function is a fixture of number theory. It is usually traced to an 1831 paper by August Ferdinand Möbius where, somewhat surprisingly, it arose in an analytic, rather than a number theoretic, setting. But perhaps more surprisingly, the function can be spotted in Leonhard Euler's classic text, *Introductio in analysin infinitorum*, from 1748.

In this talk, we examine Euler's clever reasoning that anticipated, by nearly a century, the work of Möbius (who, by the way, had both a front and a back). (Received August 19, 2016)