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94306. *The Riemann Hypothesis*.

The famous Riemann Hypothesis is nearly 150 years old. It was on Hilbert's list of 23 problems in 1900 and now it is on the Clay list of Millennium problems, and has a one million dollar reward for its solution. Many people regard it as the most important unsolved problem in all of mathematics. In this talk we will explain exactly what the Riemann Hypothesis is and give some of the colorful history that has grown up around efforts to solve it. (Received June 11, 2007)