



# Emmy Noether

## **Mathematician**

### 1882-1935

Prof. Emmy Noether was a German mathematician who laid the foundation for modern theoretical physics. In addition to her pioneering work in mathematics, founding the field of algebraic topology, she identified that the symmetries of a system correspond to conservation laws. This crucial insight became known as Noether's Theorem.

Born in 1882, Noether had family support in her pursuit of a doctorate. Initially denied professorships on the grounds of gender and expected to lecture for free, she nevertheless established herself as a leader in mathematics. Noether was one of many Jewish professors persecuted when the Nazis came to power in 1933. She escaped to the United States and continued her groundbreaking work as a visiting professor at Bryn Mawr College and lecturer at the Institute for Advanced Study in Princeton until her death in 1935.