





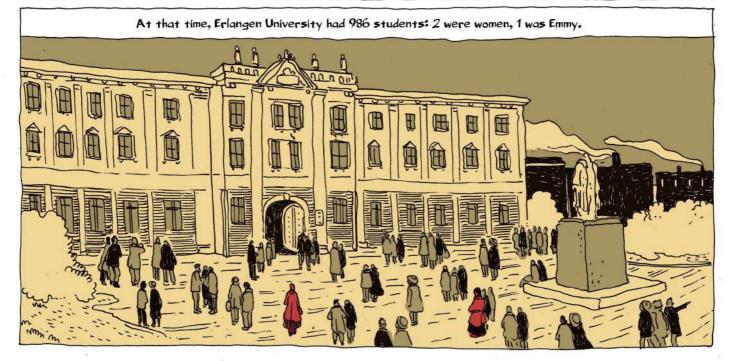


Many think that Emmy is the diminutive of Amalie, but that is a misconception.



English and French exams to become a teacher.

In 1890, Emmy passes the







To be able to attend the lectures, Emmy needs to ask the professors for permission.





Even when the permission is granted...



After passing the exam at the Realgymnasium in Nuremberg, Emmy spends a semester visiting the University of Göttingen.





Here, she studies under the guidance of some of the most important mathematicians and astronomers of the time.

In October 1904, Emmy goes back to the University of Erlangen to specialise in mathematics...

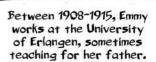


...under the supervision of Paul Gordan.



Her thesis is presented in 1907, when she is only 25. She later dismisses it.

* "Über die Bildung des Formen Systems der ternären biquadratischen Form."





Even in the following years, Emmy stays in contact with Ernst, sending him postcards with her ideas about mathematics.

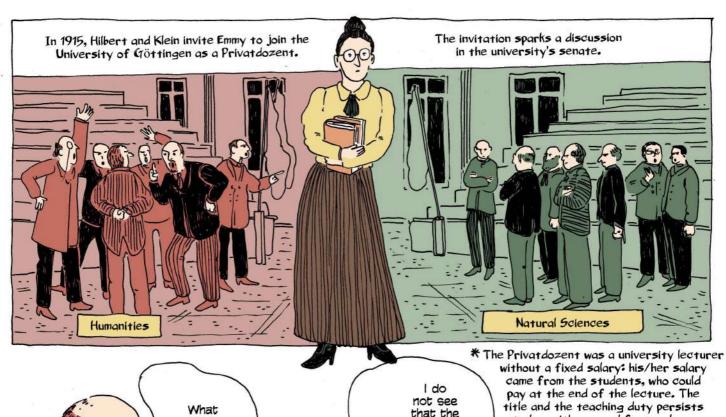


From 1911, she collaborates with Ernst Fischer, the successor of Erhard Schmidt and Paul Gordan.



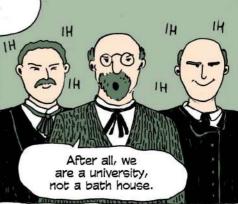
Ernst introduces her to the work of David Hilbert, in particular to his work on abstract algebra.





What will our soldiers think when they return to the university and find that they are required to learn at the feet of a woman?

that the sex of the candidate is an argument against her admission as privatdozent. today, with no need for a salary, and students cannot pay the lecturer directly anymore.



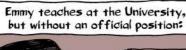
After a short time in Göttingen, Emmy needs to go back to Erlangen ...



... Due to her mother's death, her father needs her help.

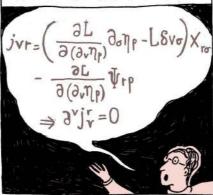
After several weeks, Emmy finally moves to Göttingen.



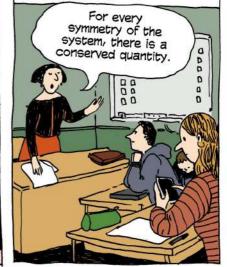


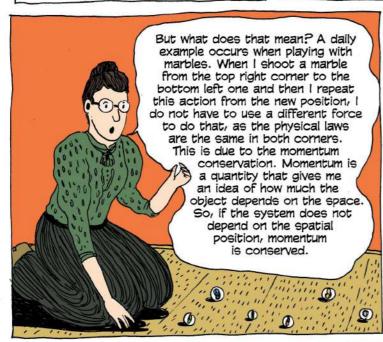


Her lectures are advertised under Hilbert's name. In some cases, her name appears as teaching assistant. In Göttingen in 1916, Emmy proves her famous theorem. American physicists Lederman and Hill state that this theorem is "certainly one of the most important mathematical theorems ever proved in guiding the development of modern physics, possibly on a par with the Pythagorean theorem".



If you ask a physicist or a mathematician what the theorem states, they will tell you something along the lines of...









The German revolution in 1918-19 changes political and social beliefs, including the position of women in the German society.

One of the consequences is that Emmy can proceed with the Habilitation exam and officially become a Privatdozent.



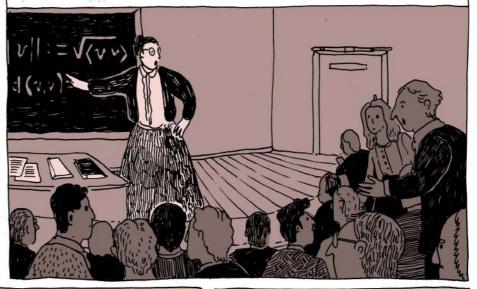


In 1922, 7 years after her move to Göttingen, she is awarded thetitle of Lehrbeauftragte für Algebra and, finally, receives a salary.



Emmy supervises the work of several students, also known as "Noether's boys".

Her teaching style is based on spontaneous discussions on the latest discoveries in the field of mathematics.





Students are divided in two categories: "the dedicated", who enthusiastically follow the discussions, and "the frustrated", who feel alienated by the focus required to follow



Due to economic hardships, Emmy adopts a frugal lifestyle and she is not concerned with appearances.







In the Winter of 1928-29, Emmy goes to Moscow to visit P.S. Alexandrov, a soviet mathematician with whom she has collaborated in Göttingen.

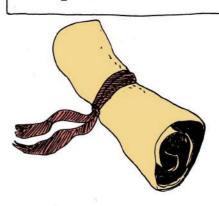


They say that her beliefs got her evicted from the pension in Göttingen she was living in.



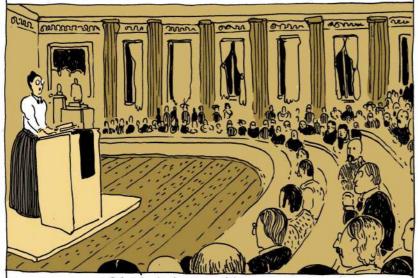
After the other tenants complained about living with a "Marxist-leaning Jewess".

In 1932 Emmy receives the Ackermann-Teubner Memorial Award together with Emil Artin...



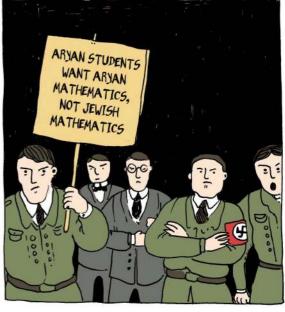
But she was never admitted to the Göttingen Academy of Science, nor the title of full professor.

In November of the same year, she takes part in the International Congress of Mathematicians in Zurich, where she presents some of her results in a plenary session.



It's the high point of her career.

In 1933, with Hitler in power, things get harder.



Emmy keeps welcoming her students in her apartment, to keep on discussing mathematics.



One day a student comes in wearing his uniform of the paramilitary organisation Sturmabteilung (SA).



But Emmy keeps calm ...



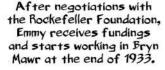
And that day when Viktor came in wearing his SA uniform! I could not believe that!



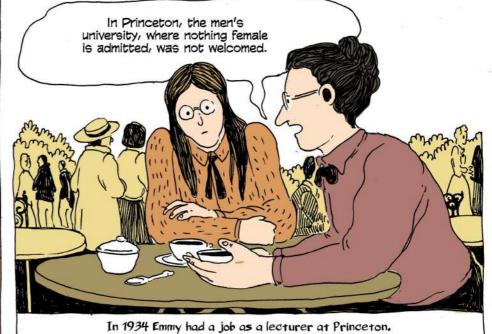
And she laughs about it afterwards.



Like many other professors and researchers, Emmy looks for a job abroad. She receives two offers: One from the Sommerville College of Oxford and the other from the Bryn Mawr College.

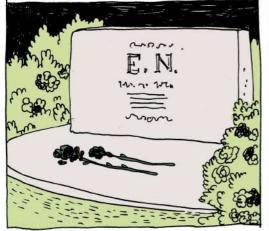






Due to economic hardships, Emmy adopts a frugal lifestyle and she is not concerned with appearances.

In 1935, doctors find a tumor in her pelvis. After some days of rest, she undergoes surgery. Despite signs of recovery in the days following the operations, on 14th April her temperature reaches 42.8°C (109°F) and she dies.









The efforts of most human-beings are consumed in the struggle for their daily bread, but most of those who are, either through fortune or some special gift, relieved of this struggle are largely absorbed in further improving their worldly lot. Beneath the effort directed toward the accumulation of worldly goods lies all too frequently the illusion that this is the most substantial and desirable end to be achieved; but there is, fortunately, a minority composed of those who recognize early in their lives that the most beautiful and satisfying experiences open to humankind are not derived from the outside, but are bound up with the development of the individual's own feeling, thinking and acting. The genuine artists, investigators and thinkers have always been persons of this kind. However inconspicuously the life of these individuals runs its course, none the less the fruits of their endeavors are the most valuable contributions which one generation can make to its successors. Within the past few days a distinguished mathematician, Professor Emmy Noether, formerly connected with the University of Göttingen and for the past two years at Bryn Mawr College, died in her fifty-third year. In the judgment of the most competent living mathematicians, Fräulein Noether was the most significant creative mathematical genius thus far produced since the higher education of women began...