962-01-285 Rüdiger Thiele* (thieler@server3.medizin.uni-leipzig.de), University of Leipzig, Sudhoff-Institute, Augustus Platz 10-11 Leipzig, Germany. On Hilbert's 24th Problem: Report on a new source and some remarks.

One hundred years ago, on 8 August 1900, to be exact, David Hilbert delivered his famous Paris talk. It was at the end of the year 1899 when David Hilbert was invited to make one of the major addresses at the coming second International Congress of Mathematicians in Paris. Hilbert hesitated and at last decided to lecture on some open mathematical problems, but he decided so late (in July) that his talk "Mathematical Problems" was only included in the History section instead of the opening session. However, Hilbert's problems have proved to be central in the 20th century and became famous. All in all he discussed 23 important problems, however he did not present all of them in his address. Furthermore, he had even cancelled a problem on proof theory. The talk will give a short prehistory of Hilbert's famous talk. Then I will go into some detail on the cancelled 24th problem and make some historical, logical, mathematical (concept of Syzygies) and philosophical remarks. In short I will compare Hilbert's ideas with Einstein's view on simplicity in mathematics and physics respectively. (Received September 07, 2000)