

ences: 5 From Reviews: 1

## MR4292586 01A55 01A60 01A70 Tobies, Renate (D-FSU-NDM)

★Felix Klein—visions for mathematics, applications, and education. Translated from the German original by Valentine A. Pakis. Vita Mathematica, 20. Birkhäuser/Springer, Cham, [2021], xx+677 pp. ISBN 978-3-030-75784-7; 978-3-030-75785-4

Renate Tobies has given us in this book an exhaustive and authoritative survey of the life and works of one of the most remarkable mathematicians of the late nineteenth and early twentieth century, Felix Klein. Special attention is paid to his manner of posing new questions, his recognition of new connections between fields, and his ability to identify fresh talents and new collaborators to advance many of his ideas. More than just focusing on his professional achievements and influences, the book is also concerned with Klein as a person. It sheds light on how he as a scientist was able to attract students—male and female alike—to follow his visions. As such Klein left a lasting mark on many areas of mathematics and its applications and organization in Germany. In an astounding number of areas he was in fact a pioneer. At the University of Göttingen, Klein laid the foundation for a new golden era and pointed the way ahead. This meant that he appointed the best scientists (among them David Hilbert, Hermann Minkowski, Carl Runge, Ludwig Prandtl, and Edmund Landau) to cooperate with him, that he found new ways to retain them at his university, and that he established new institutes by acquiring funds from industry, inspired by the example of American universities.

Eduard Glas