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Abstract.....5

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Abstract

The present work is a bibliographic research that aims to study the theories and practices for the stereotypes that have been recorded so far about the differences between women and men in mathematics. The numbers of female mathematicians versus male mathematicians from antiquity to the middle of the second half of the 20th century are overwhelmingly in favor of men. In the literature a limited number of women have significant published work in mathematics. This reinforces the view that society did not provide opportunities for (or even hindered) the presence of women in academic institutions in the field of mathematics. The aim of this research is to highlight the renowned female mathematicians from antiquity to the present day. Their contribution and work in the science of Mathematics is analyzed and their prominence in educational practice and public educational discourse is proposed. Finally, the results of the research are presented and a discussion is given about the factors that influenced the course of these women.

Keywords: women, work, mathematics

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Portrait of Laura Bassi at the University of Bologna/ wikipedia

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Emmy Noether (1882-1935)

Emmy Noether, Max Noether, Leon Lederman, Christopher Hill «
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Emmy Noether, Erlangen.
Erlangen
Gottingen
(Angier, 2012). Noether
Bryn Mawr College
Hermann Weyl.
Mathematische Zeitschrift
(Kimberling, 1982).



Emmy Noether c.1910
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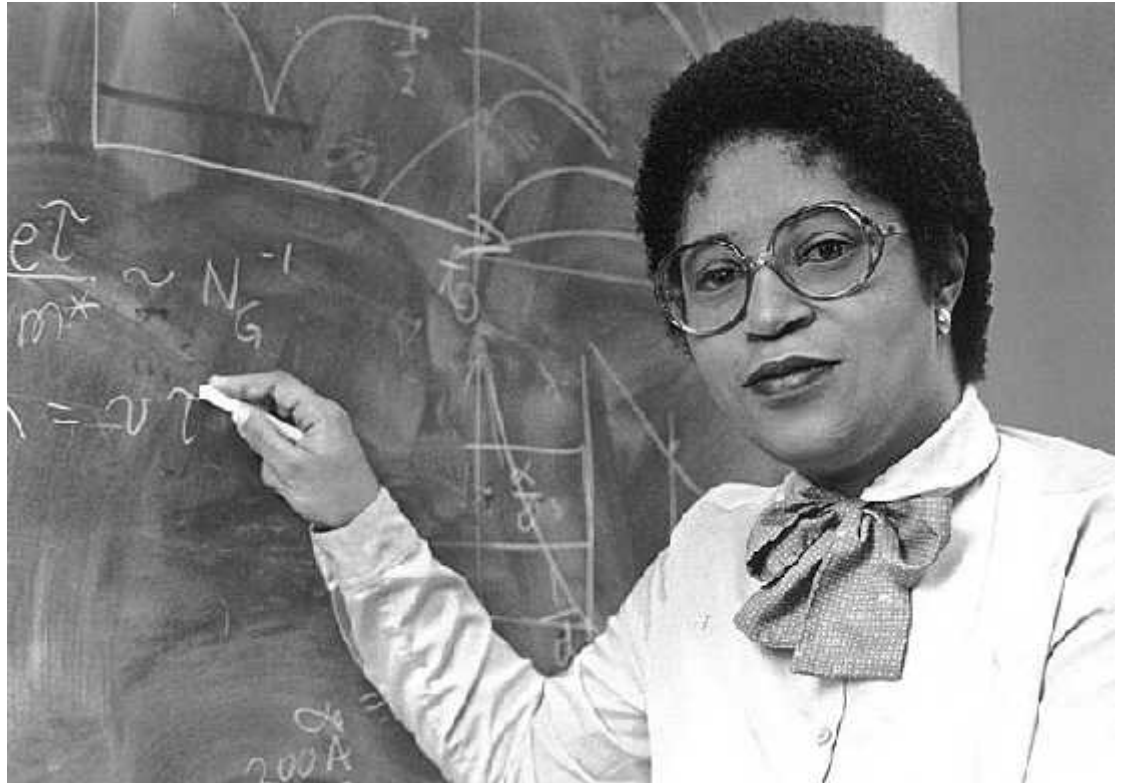
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Euphemia Lofton Haynes/ : wikipedia

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Dame Mary Lucy Cartwright (1900-1998)

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National Portrait Gallery, London/ wikipedia

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 (Series, 1999).

Katherine Johnson (1918-2020):

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 summa cum laude. Schieffelin
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 Shetterly, 2016). Johnson 1953
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 1986.



NASA research mathematician Katherine Johnson is photographed at her desk at Langley Research Center in 1966. Credits: NASA

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 John Glenn
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 Katherine G. Johnson Langley Research Center
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Helena Rasiowa (1917-1994)

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Helena Rasiowa/ wikipedia

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Julia Robinson (1919-1985)

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Julia with Raphael: photograph by Paul Halmos

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Cathleen Morawetz (1923-2017)

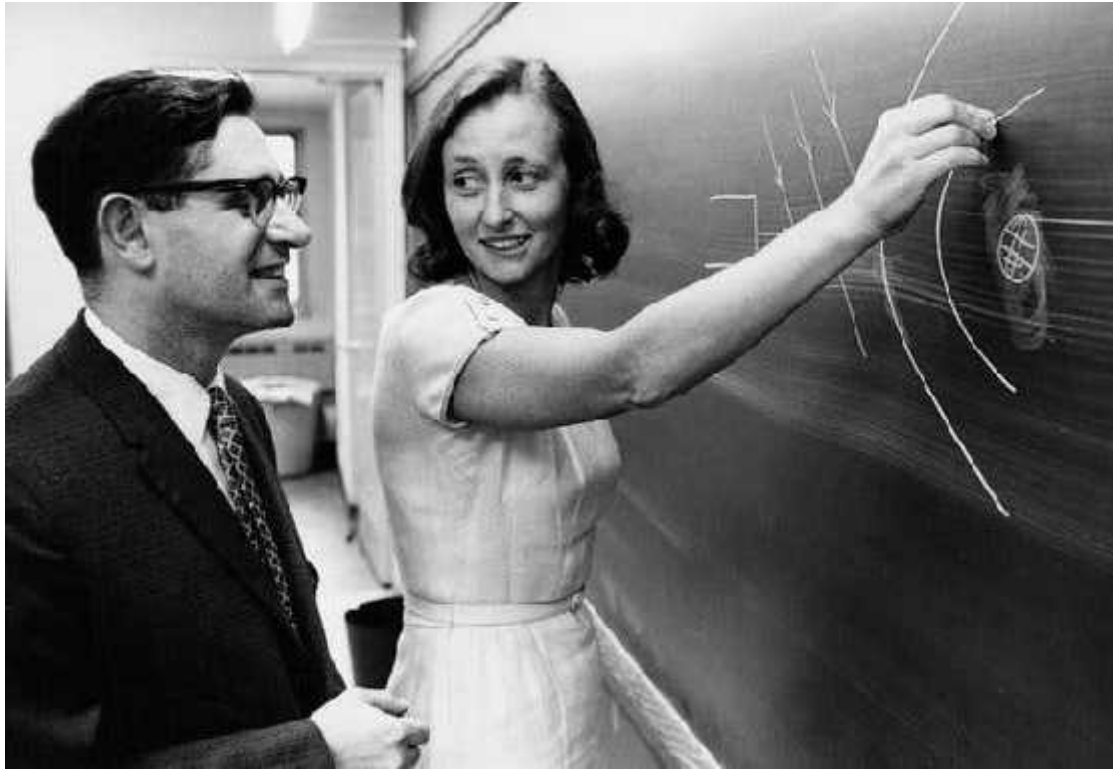
Cathleen Morawetz μ μ . , John Lighton
Synge, μ μ μ , Eleanor Mabel Allen Synge,
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Dr. Morawetz with her N.Y.U. colleague Harold Grad in 1964.Credit...New York University

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Mary Gray (1938-)

Mary Lee Wheat Gray Nebraska 1938.
Hastings College 1959,
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Mary Gray/ : <https://www.widsconference.org/>

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Karen Uhlenbeck (1942-): Η

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Photo Credit: Dan Komoda/Institute for Advanced Study, Princeton, NJ USA

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Communications in Mathematical Physics 1982 (Donaldson, 2019).

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Caren Diefenderfer (1952 – 2017)

Caren Diefenderfer

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Allentown , Smith College,
Suzan Rose Benedict
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Academic Computing Services. Caren μ μ
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Herta Freitag Faculty Award Roberta A. Stewart
Service (Diefenderfer, 2012). 2017, μ μ

Hollins Quantitative Reasoning () Caren

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Caren Diefenderfer/ : Biographies of Women Mathematicians

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Maryam Mirzakhani (1977-2017)

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Fields Medal,

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Harvard,

Stanford (Barcelo & Kennedy, 2018).

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Photograph: Mott Carter/Clay Mathematics Institute

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