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Fachbereich Mathematik, Universität Duisburg-Essen

Explanation and Proof in Mathematics: Philosophical and Educational Perspectives

**Universität Duisburg-Essen, Campus Essen,
Nov. 1 through Nov. 4, 2006**

Section 1: The role of representations and diagrams in proof

Marcus Giaquinto (London), Evelyne Barbin (Nantes), Mary Catherine Leng
(Cambridge), Willibald Dörfler (Klagenfurt)

Section 2: Proofs as experiments and their role in the em- pirical sciences

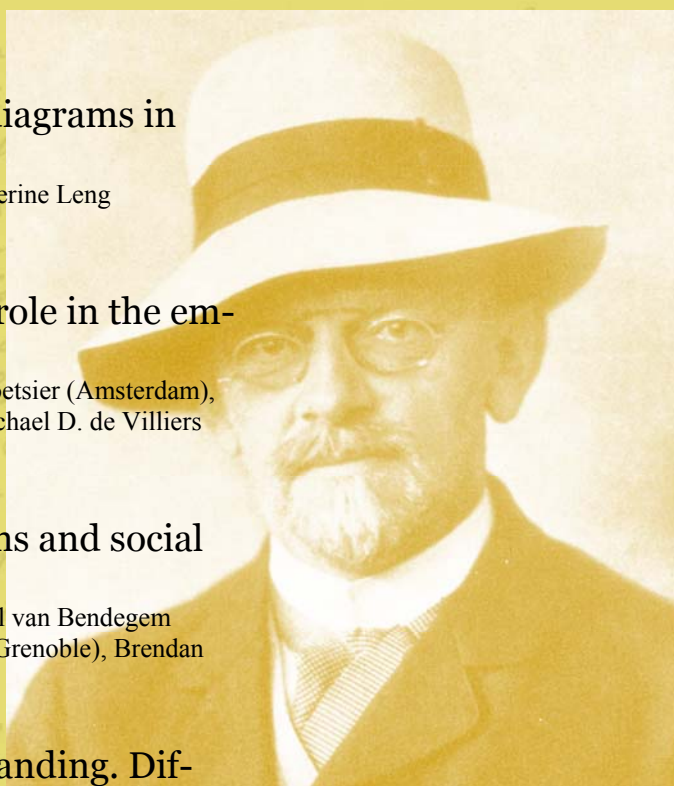
Alfred Nordmann (Darmstadt), Moritz Epple (Frankfurt), Teun Koetsier (Amsterdam),
Michael Stöltzner (Wuppertal), Kazuhiko Nunokawa (Tokyo), Michael D. de Villiers
(Durban)

Section 3: Genesis, epistemological functions and social practices of proof

Kenneth Ruthven (Cambridge), Aiso Heinze (München), Jean Paul van Bendegem
(Brussel), Thomas Mormann (San Sebastian), Nicolas Balacheff (Grenoble), Brendan
Larvor (Hertfordshire)

Section 4: Proof and mathematical understanding. Dif- ferent types of argumentation and proof

Karine Chemla (Paris), Mariolina Bartolini-Bussi (Modena), Maria Alessandra Mariotti
(Siena), Phil Davis (Providence), Erich Christian Wittmann (Dortmund), David Tall
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