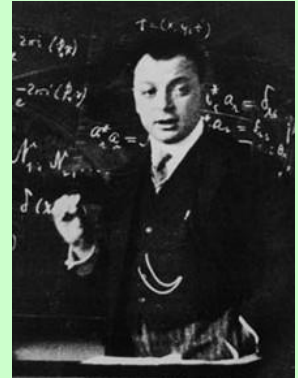


Pauli Symposium @ Mauser60Fest

“What are mathematics (good for) ?”

Sunday 4. Aug 2024, 17h00 – 20h00

Location: Skylounge Fak. Math., Uni Wien,
Oskar Morgenstern Platz 1, 1090 Wien



What are “mathematics” (plural) and who defines this ?

Why are there 2 sections of mathematics in the French (CNU) system ? :

Sec. 25 : “mathematiques” and

Sec. 26 : “mathematiques appliquées et applications des mathematiques”.

How far do mathematics go beyond „definition - theorem - proof” ?

How useful is „mathematical physics” for physicists ?

Is „numerical modelling with no proofs” part of mathematics ?

Why is „statistics” mostly separated from mathematics ?

Is „scientific computing”, is „machine learning” part of mathematics ?

Where is mathematics in „AI” and „Quantum technology” ?

Why are such questions important ?



**Model hierarchies in
semiclassical semi-relativistic
quantum models: From
Dirac-Maxwell to Euler-Poisson**

Norbert J. Mauser, Professor
Department of Mathematics
University Vienna, Austria
Sunday, February 11, 16:00 - 17:00
Building 1, Level 3, Room 3119

Applied Mathematics and Computational Sciences (AMCS)
Seminar



17h00: « introduction » : Claude W. Bardos (LJLL Paris & WPI & Inst. CNRS Pauli)

“(r)evolutions” : Norbert J. Mauser (WPI & Inst. CNRS Pauli & U. Wien)
personal answers to the above questions

3 statements :

- .) Rupert Klein (Pauli fellow @ FU Berlin) expert in math for weather & climate
- .) Doron Levy (Pauli fellow @ U. Maryland) expert in math for bio & medicine
- .) Christoph Nägerl (WPI @ U. Innsbruck) expert in (experimental) physics

18h15: general discussion :

18h45 – 20h00: “reception” = continuation of discussion with drinks & food & view over Vienna

