

As Norbert I am a mathematician (may be the oldest in this room)

Mathematics were never easy for me. But I was attracted by several aspects.

It touches all type of « scientific » activities. Maybe it does not explain why things exist (as philosophy or religion claim to do) but definitely contribute to explain how they are. Think about the infinity of entire numbers.

Math relies on rigorous and universality. Spectral theory from Riemann hypothesis to detection of defects in material (non destructive scanning).

Mathematics generate a fascinating community of individuals where relation between members and friendship are essential. Quite early in my academic cursus I realised that I would like to be a member of this community.

As in the spiritual « When the saints go marching in I want to be in that number »

And that brings me to Norbert.



I met Norbert 32 years ago, at a German-Israeli conference organised by Helmut Neunzert in an ancient STASI camp in Gosen in East Berlin.

We became immediately friends. He had a car and took me with him to what was still West Berlin to meet his PhD advisor Peter Markowich and the rest of the group.

Peter had already the tendency to move around the academic world. Taking with him students and postdoc like a flock of migrating birds.





Over the years I had the chance to follow Norbert's activities and to collaborate with him. Norbert matched perfectly what I had expected from mathematicians. With his background in Quantum Physics, applications from semi conductors to medicine come naturally by themselves as a good illustration of the quote attributed to Joe Keller about Pure Math (a notion not present in the contributions of Hadamard and Poincaré and which goes back to Joe Keller): "Pure Math is just one of the branches of Mathematics".



Norbert is a hard working visionary - overcoming adversity and hostility, he created projects like HYKE and the Wolfgang Pauli Institute with a huge impact on science and the community of applied math, The WPI, also with the help of Stefanie Preuss, Hans Peter Stimming, and other regular collaborators, is a nonlocal institute extended well over Vienna, Austria and Europe as a "laboratory without walls" between disciplines and institutions and nations. At WPI, science and friendship are deeply present.

Thank You, Norbert and Happy 60 birthday.



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 appliquees 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 ?



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





the
MAUSER
family

oh what fun!



Marry Christmas 2023 🎄🎁🕯️
and happy 2024 !! 🍷🎉