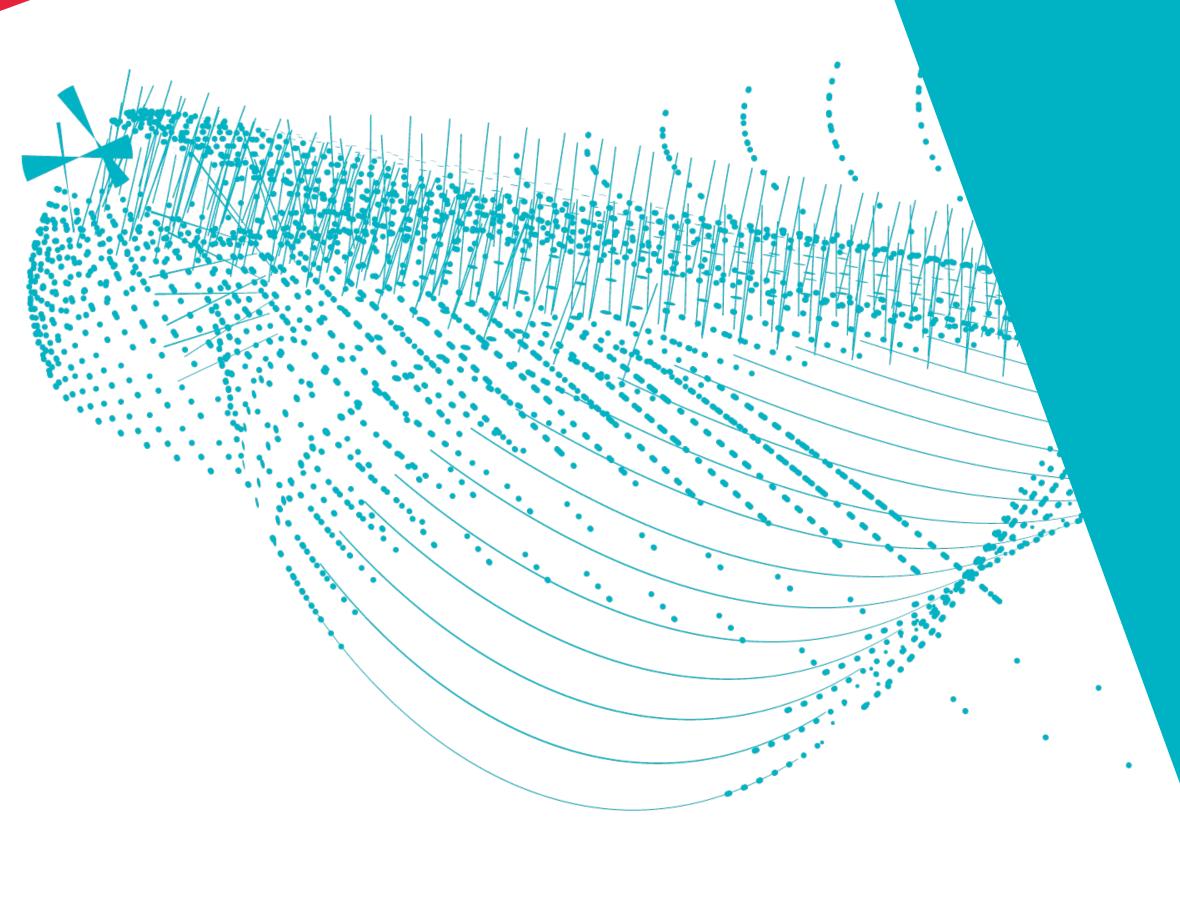


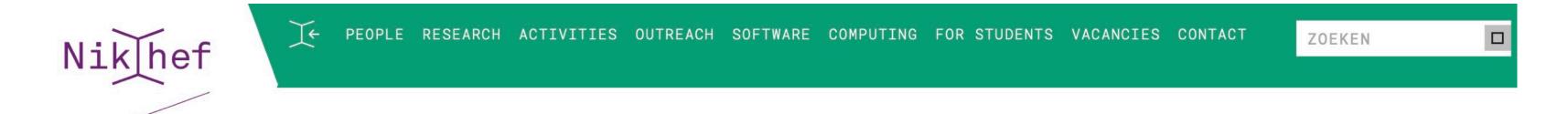
NIKHEF JAMBOREE, AMSTERDAM, 13-14 MAY 2024

THEORY GROUP INTRODUCTION



Robert Fleischer

NIKHEF THEORY GROUP WEBSITE:





Theoretical physics at Nikhef

Are you following us?

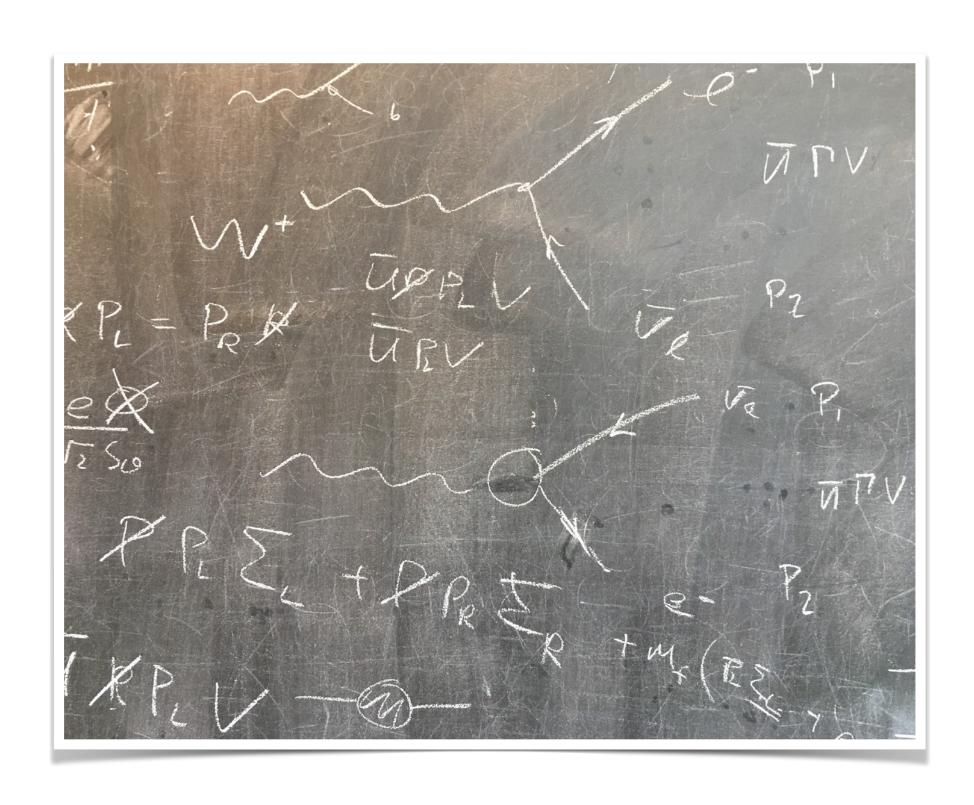




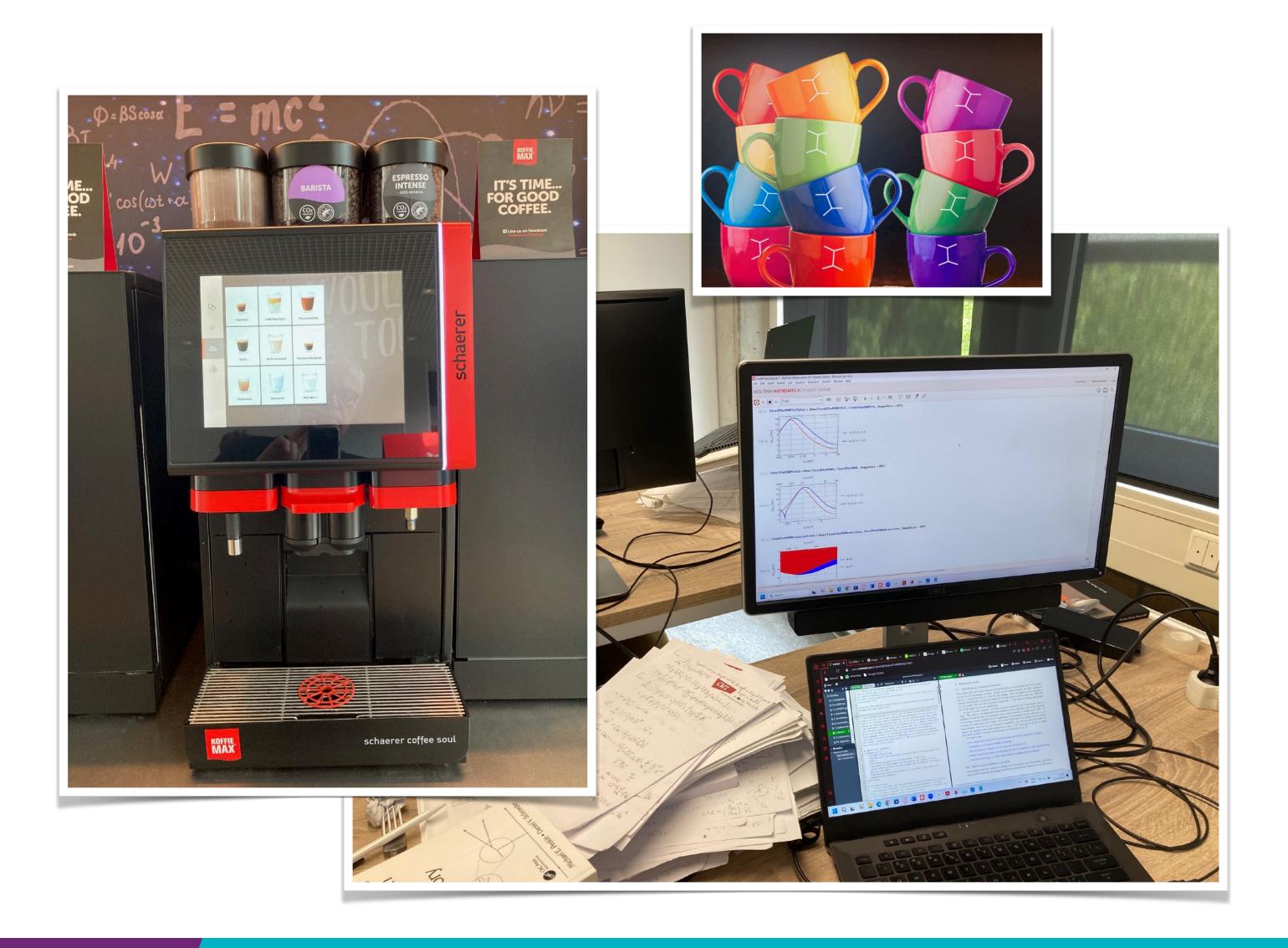
Theory

RESEARCH & MISSION OF THE THEORY GROUP

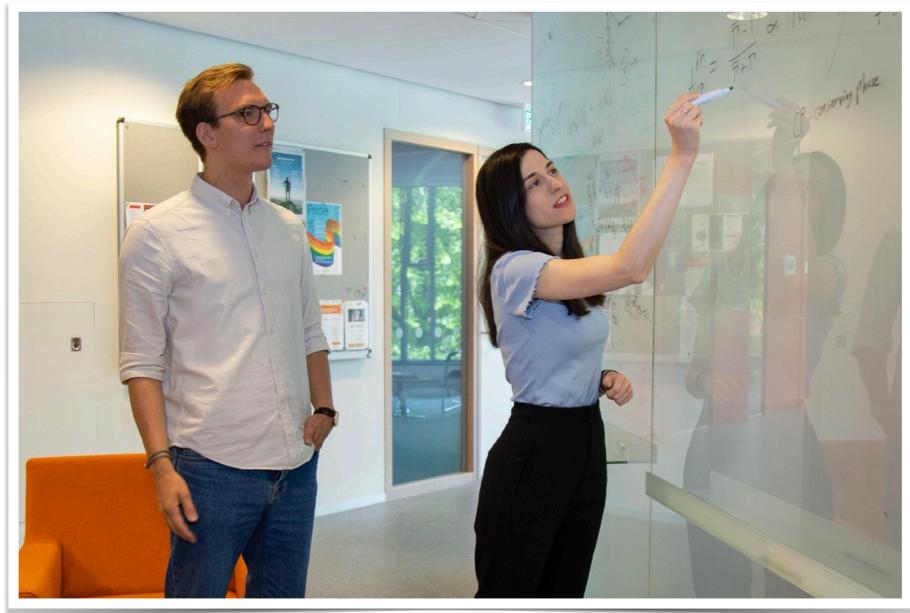
- Broad spectrum of topics:
 - QCD and collider physics
 - •Flavour physics: quarks & leptons
 - Dark matter
 - Cosmology
- Serves as a national centre for particle physics phenomenology.
- Exploit environment at Nikhef through close interactions with the experimental groups.



"INSTRUMENTATION" FOR THEORETICAL PHYSICS

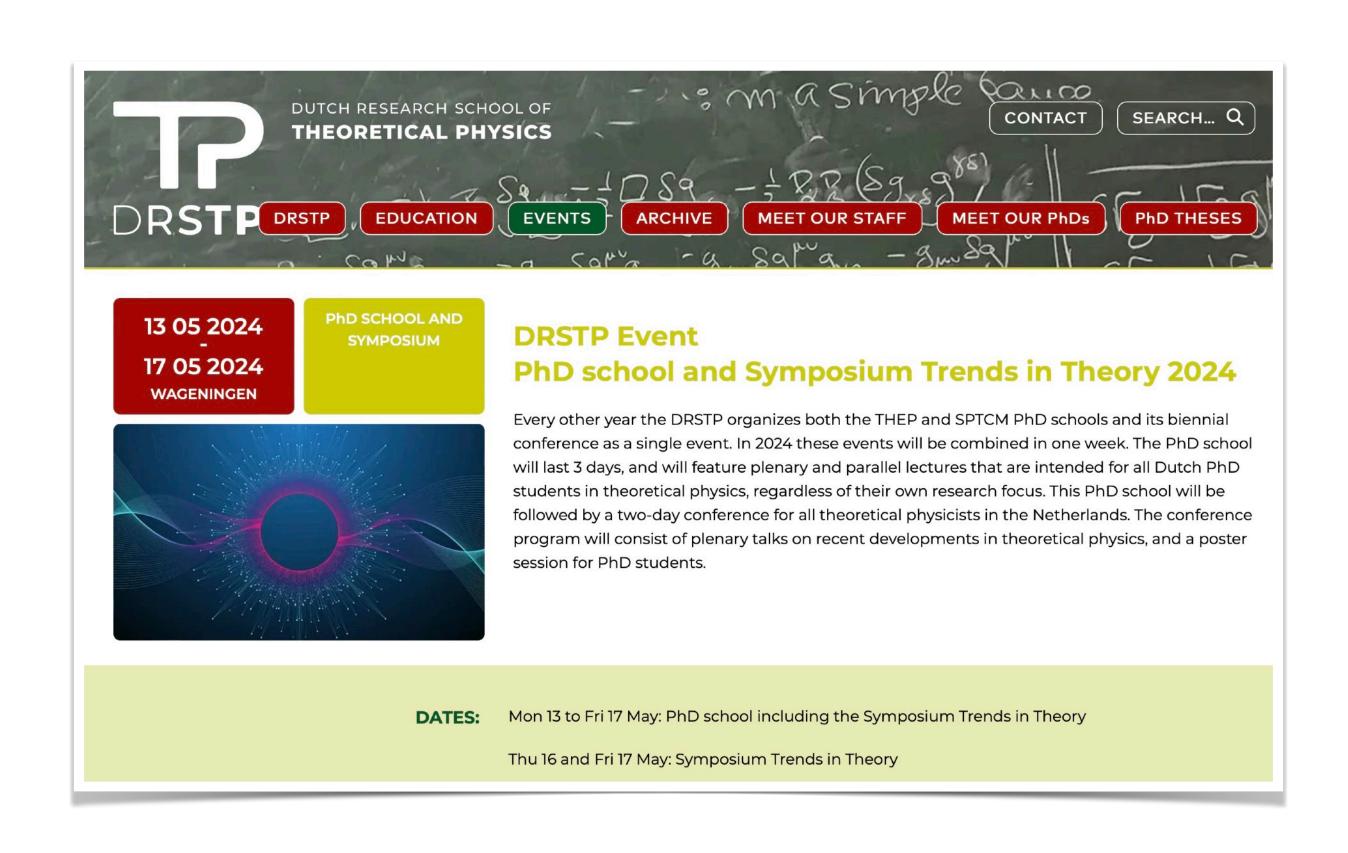


Biggest resource/ investment: talent!



BROAD REGULAR SCIENTIFIC ACTIVITIES

- Journal Clubs
- •Theoretical Physics Seminars,...
- •Activities within the PhD graduate school (DRSTP):
 - National Seminar Theoretical High-Energy Physics (2-times/year)
 - Trends in Theory (every other year)
- •Involvement in Nikhef activities:
 - Colloquium
 - •Theory Meets Experiment, ...





"THEORY DAY" MEETINGS

- •Mini Workshops to connect the Dutch theo/pheno community.
- •Include a student session without staff members being present.
- •Recent meeting in Nijmegen.

Everyone interested is welcome to join!



MEETING BETWEEN THEORY AND DETECTOR R&D

New initiative:

Theory meets Detector R&D:

Focus on Fast Timing

Friday, May 31st

[Martin Fransen & R.F.]

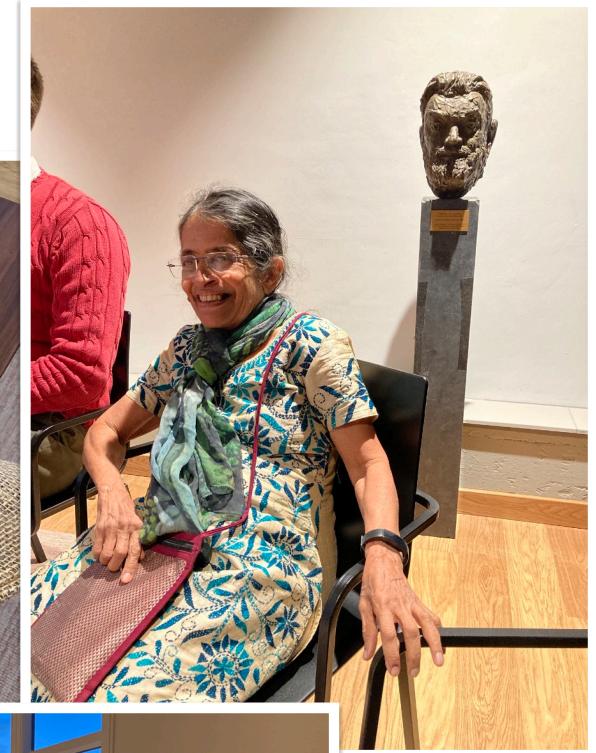




SOCIAL "THEORY" EVENTS...











SCIENTIFIC PROGRAMME OF THIS SESSION:

Key Words: New Physics

•Pieter Braat:

Dark matter

•Jaco ter Hoeve:

SMEFT for future colliders



INTERACTION SESSIONS

•R.F.:

Penguin Zoology (TH1 - Dam Kitchen)

•Wouter Waalewijn:

Factorization - or what you need to know about predictions for hadron colliders (TH2 - Dam Kitchen)

•Maximilian Attems:

Holographic shockwave collisions (TH3 - Spui)

10