



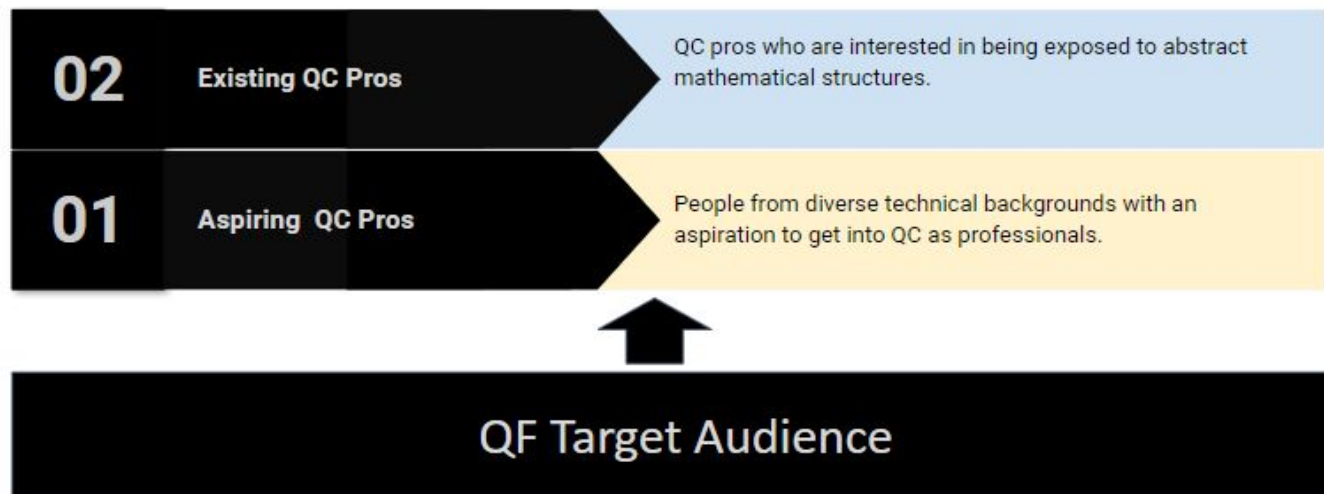
*An Open Mathematical Knowledge Sharing Community
Brought to you by Zaiku Group and Homomorphic Labs.*

Q&A Session - Monday, April 15.

Bambordé Baldé

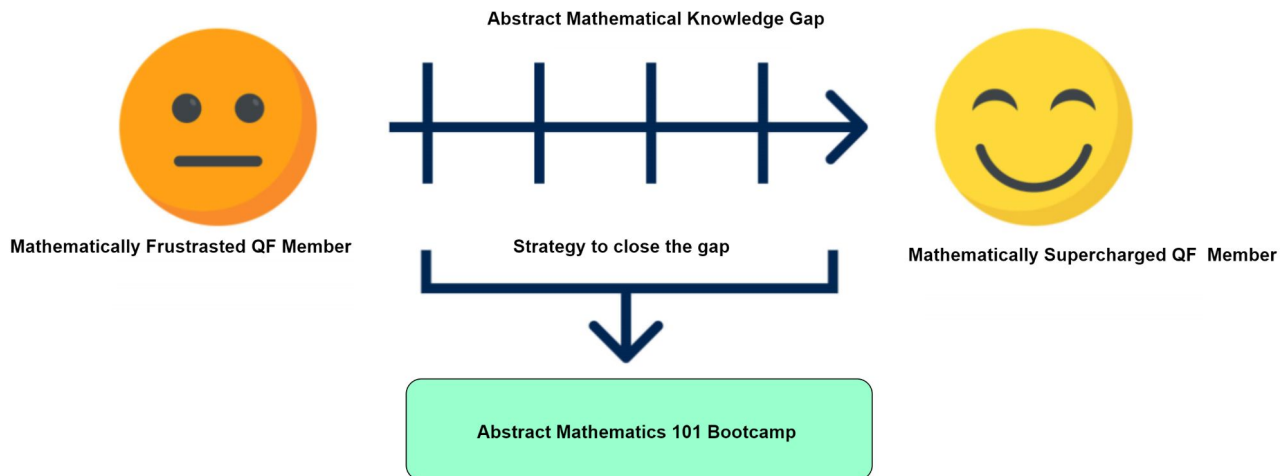
What is the Quantum Formalism (QF) Community?

QF is a free online course series provided by the Zaiku Group, aimed at exposing abstract mathematical topics to a diverse group of STEM professionals looking to break into the nascent quantum computing.



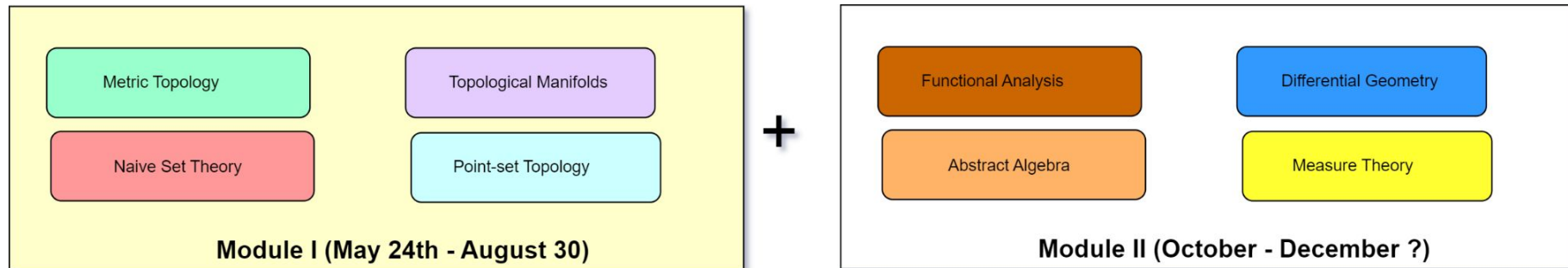
Why the Abstract Mathematics Bootcamp?

The bootcamp is designed to bridge the foundational knowledge gap between established QF community members and those who have joined us within the past year.



The Abstract Mathematics Bootcamp Structure

The bootcamp is divided in two core modules:



The Bootcamp Curriculum (Module I): May 24th - August 30th

- Basic/naive notion of a set
- The union of sets
- The intersection of sets
- The complement of a set
- Cartesian products
- Maps between sets
- Countable and uncountable sets
- Finite and infinite sets

Naive Set-theory



- The abstract notion of topology on a set
- Topological spaces
- Closed subsets
- Subspace topology
- Neighbourhoods
- Hausdorff spaces

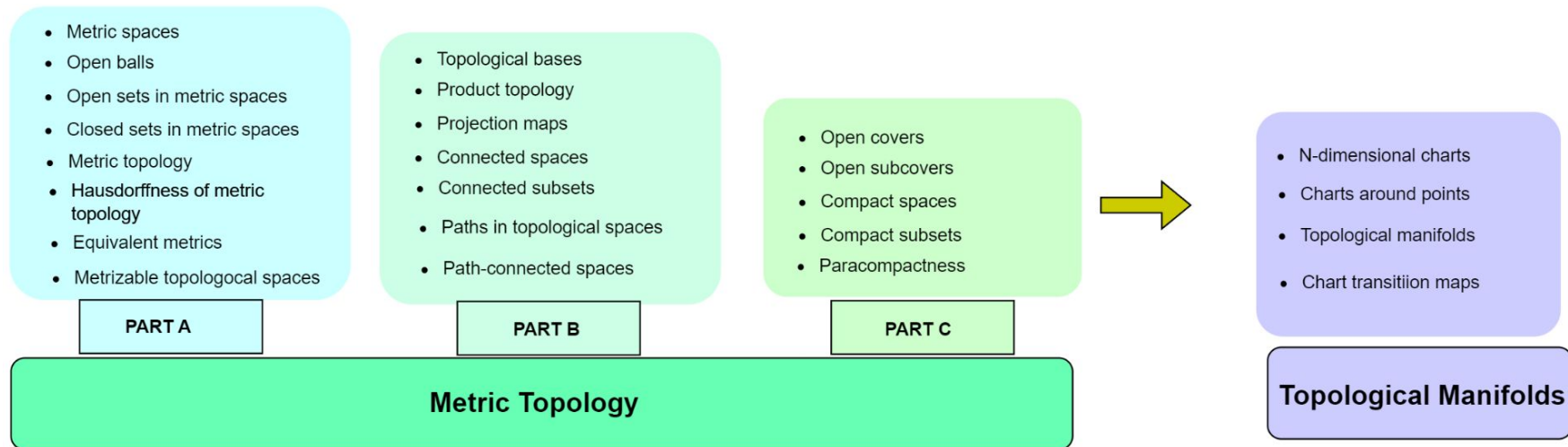
PART A

- Subset interior
- Subset closure
- Subset exterior and boundary
- Continuous maps
- Homeomorphisms

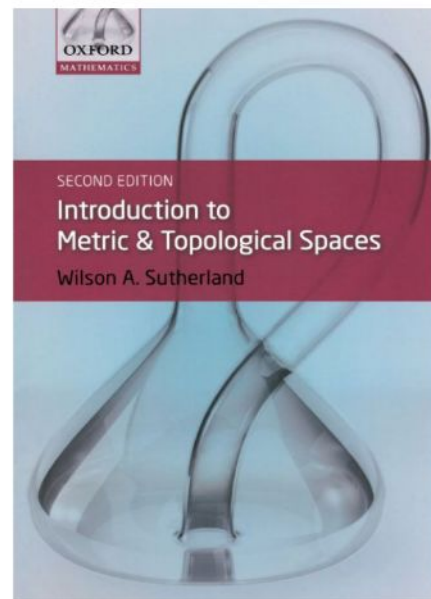
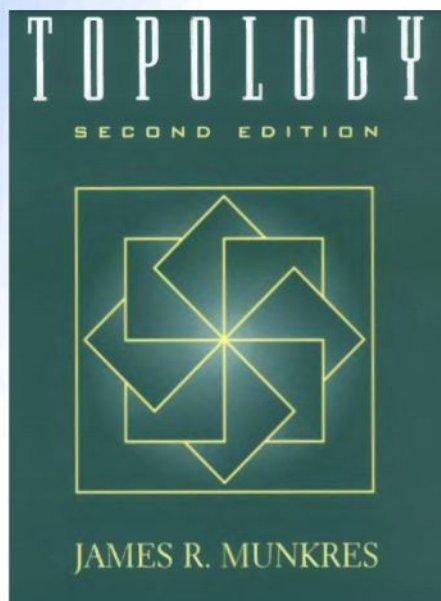
PART B

Point-set Topology

The Bootcamp Curriculum (Module I): May 24th - August 30th

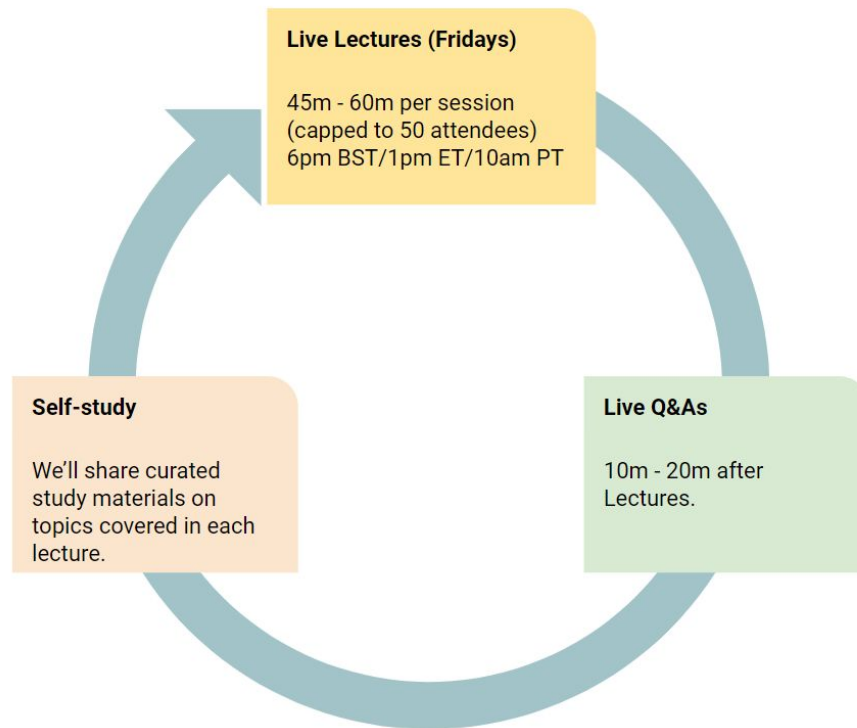


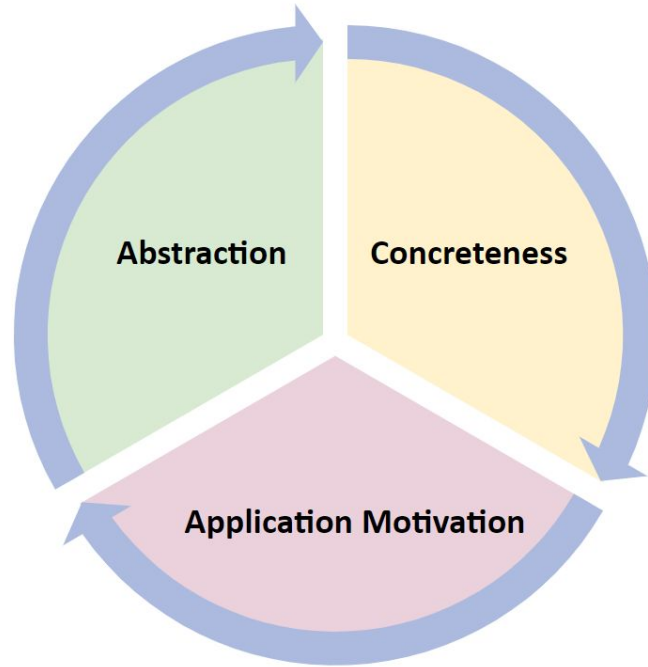
The Bootcamp References (Module I): May 24th - August 30th



Reference Materials

The Bootcamp Format (Module I): May 24th - August 30th





The Bootcamp Team (Module I): May 24th - August 30th



Jac Novak (She/Her) · 1st

Cross-Cultural Leader|Tourism and Hospitality Professional|Specialized in Research Marketing exploring the deep-tech landscape|Solo traveler & Writer@theroadbyjacnovak, teaching Women how to travel the world alone safely

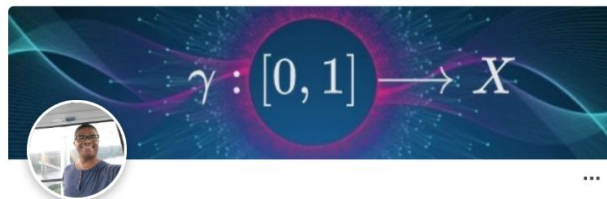


Homomorphic Labs Ltd



EBAC - Escola Britânica de Artes Criativas e Tecnologia

Bootcamp Experience Manager



Bambordé Baldé

Co-Founder & Head of Mathematical Sciences at Zaiku Group.

United Kingdom · [Contact Info](#)

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Bootcamp lecturer



Max Arnott · 1st

Quantum Machine Learning & Functional Analysis

United Kingdom · [Contact info](#)



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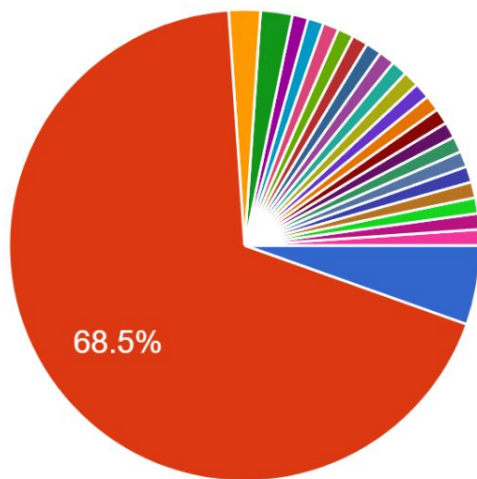


Lancaster University

Bootcamp TA

What best describes your mathematical level?

92 responses

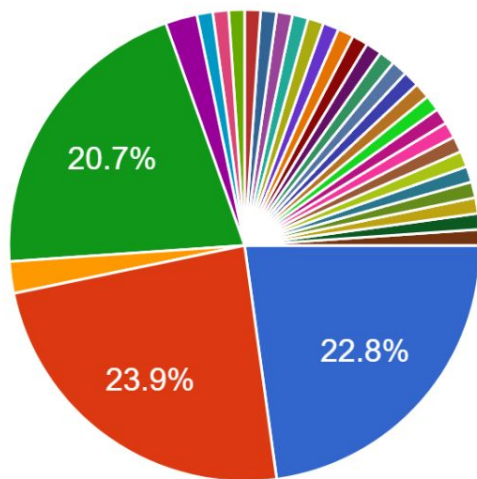


- High school level mathematics
- Undergraduate university level mathematics
- Post-Graduate Student
- Postdoc
- Bachelor Degree in Electronic Engineer
- graduate level mathematics
- Other STEM (Not Mathematics) UG level
- Advanced, Master Level with clear hn...

1/3

What describes best your profile/background?

92 responses



- Researcher in Quantum Information Science
- Researcher in another STEM related field
- Aspiring Quantum Computing Professional Enthusiast
- Professional in a STEM related field
- Master's student in Physics
- BSc Molecular Genetics
- Quantum Enthusiastic
- software developer

1/4



GitHub: github.com/quantumformalism

YouTube: youtube.com/Zaikugroup

LinkedIn: [linkedin.com/showcase/quantum-formalism](https://www.linkedin.com/showcase/quantum-formalism)

1. Embrace abstraction i.e. take the abstraction red pill!:)
2. One step at a time approach to the covered abstract concepts.
3. Try build your own intuition of the covered abstract concepts.
4. Try do proofs by yourself before checking other people's proofs.
5. If you struggle to understand a concept, cross reference different sources.
6. Setup a study group where you can present proofs to each other.