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However, when it comes to Quantum Field Theory, I feel that very much revolves (especially from the math-community side) around topological and algebraic questions. There is for example a visible math-community with analysis background working on mathematical quantum mechanics, but I never noticed this community in Quantum Field Theory.

at.algebraic topology - Why is Quantum Field Theory so ...
Description. Differential topology considers the properties and structures that require only a smooth structure on a manifold to be defined. Smooth manifolds are 'softer' than manifolds with extra geometric structures, which can act as obstructions to certain types of equivalences and deformations that exist in differential topology. For instance, volume and Riemannian curvature are invariants ...

Differential topology - Wikipedia
Wick-Rotated Quantum Field Theory and Symmetry 43 56; 3.1. Axiom System for quantum field theory 44 57; 3.2. Relativistic quantum field theory 46 59; 3.3. Wick rotation of relativistic quantum field theory 47 60; 3.4. Symmetry groups in quantum field theory 48 61; 3.5. Interlude on differential geometry 52 65; 3.6. Wick-rotated field theory on ...

Lectures on Field Theory and Topology
Geometry and topology at Berkeley center around the study of manifolds, with the incorporation of methods from algebra and analysis. The principal areas of research in geometry involve symplectic, Riemannian, and complex manifolds, with applications to and from combinatorics, classical and quantum physics, ordinary and partial differential equations, and representation theory.

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