

# FACTORIZATION ALGEBRAS FROM TOPOLOGICAL-HOLOMORPHIC FIELD THEORIES

MINGHAO WANG AND BRIAN R. WILLIAMS

**ABSTRACT.** Topological field theories and holomorphic field theories naturally appear in both mathematics and physics. However, there exist intriguing hybrid theories that are topological in some directions and holomorphic in others, such as twists of supersymmetric field theories or Costello's 4-dimensional Chern-Simons theory. In this paper, we rigorously prove the ultraviolet (UV) finiteness for such hybrid theories on the model manifold  $\mathbf{R}^{d'} \times \mathbf{C}^d$ , and present two significant vanishing results regarding anomalies: in the case  $d' = 1$ , the odd-loop obstructions to quantization on  $\mathbf{R}^{d'} \times \mathbf{C}^d$  vanish; in the case  $d' > 1$ , all obstructions disappear, allowing us to define a factorization algebra structure for quantum observables.

## 1. INTRODUCTION

This work continues the study of quantum field theories which exist on a product of manifolds of the form  $M \times X$  where  $M$  is a smooth manifold and  $X$  is a complex manifold [GRW21; GKW24]. Such theories depend only on the smooth structure of the manifold  $M$  and only on the complex structure of the manifold  $X$ . In this sense, these quantum field theories generalize the well-studied *topological* field theories and *holomorphic* field theories which have garnered significant attention in recent years [CL15; Cos13a; Wil20; Wan24]. Examples of these hybrid theories appear as twists of supersymmetric theories, see for example [OY20; GRW23; Aga+17]. We recall a precise definition of a topological-holomorphic field theory in section 2.

The main result of this paper is that the perturbative quantization, on flat space  $\mathbf{R}^{d'} \times \mathbf{C}^d$ , of classical field theories which are of this hybrid topological and holomorphic type are particularly well-behaved. In particular, we will show that in many

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**An Introduction to Tauberian Theory** J. van de Lune, 1986      *High Energy Physics Index*, 1989      CWI Newsletter, 1984      **Parallel Computers and Computations** Jan Leeuwen, J. K. Lenstra, 1985      International Books in Print, 1995

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web portraits of interiors is a book about creating a sense of home and features 17 projects in various locations around the world including the united states europe and asia the book emphasizes the importance of finding balance between architecture art and nature

axel vervoordt portraits of interiors 9782080203755 abebooks - Jan 08 2023

web for a half century axel vervoordt s vision has been defined by a continual quest for harmony beauty and the creation of interior atmospheres that are rooted in the past connected to the future and imbued with today s comforts these eighteen residences from an urban new york penthouse or moscow apartment to a waterfront more