

1. VERTEX ALGEBRAS AND HIGHER-DIMENSIONAL ANALOGS OGG: CRAPPY TITLE

So what role factorization algebras appear in holomorphic field theories?

1.1. **Chiral conformal field theories and vertex algebras.** OGG: I want to discuss how VOAs relate to factorization algebras, notably our CDO project, Si's results, and Brueggeman's thesis. We should also gesture at the Beilinson-Drinfeld approach.

1.2. **Higher Kac-Moody algebras and their free field realizations.**

1.3. **Holomorphic  $\sigma$ -models and higher-dimensional chiral differential operators.**

1.4. Work with Ingmar **OGG: not the title.**