

1145-VU-1242 **Joseph W Grenier*** (jgreni3@lsu.edu), Baton Rouge, LA 70806. *Iterated Doubles and Quantum Field Theory.*

The iterative double of a compact manifold with boundary is a sequence of null-cobordant manifolds described by a particular process. This talk will motivate the notion of Iterated doubles via Reflection Positivity in Topological Quantum Field Theory, give some basic results, and highlight current work being done to bridge the gap between Topological and Constructive QFTs. (Received September 20, 2018)