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Stratification of the half-density quantization of the Jeffrey-Weitsman-Witten invariants

This talk presents a stratified quantization procedure motivated by the geometric foundations of the Jeffrey-Weitsman formalization of Witten's 3-manifold invariants. The core challenge we address is the singular structure of the space of flat connections on the bounding surface that extend into the handlebody—the so-called Lagrangian leaf, and the natural quantization procedure it suggests.