



Speaker: Ben Lewis
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Monday, February 10, 2014
4:25 PM
229 Hayes-Healy Hall

Title: Constructing a Quasi-Steady State Using Hamiltonian Flow

Abstract:

The WKB method classically approximates the wavefunctions of quantum mechanical systems using only spacial zones and gluing. We will present a time and space dependent approach to this problem which does not require gluing. In some sense this approach is more canonical, because, unlike the traditional WKB method, our method treats position and momentum equally. This new approach provides a novel and simple solution to a century old problem.

Based on the paper "Bohr-Sommerfeld quantization rules in the semiclassical limit" by George A Hagedorn and Sam L Robinson.