Foundation and Application of Exact-WKB analysis

講師 ： 三角 樹弘 准教授

近畿大学 大学院総合理工学研究科

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概　要

The exact-WKB analysis, which is a mathematically rigorous extension of the WKB analysis, stands as one of the most powerful tools in the study of quantum mechanical systems. It offers significant improvements over semi-classical approximations, particularly in quantum systems where both perturbative and non-perturbative effects play a role. In this talk, after introducing Borel resummation, Stokes graphs and exact-WKB, I will discuss

(1) the derivation of exact quantization conditions via the exact-WKB method,

(2) its application to the Schwinger mechanism, and

(3) its application to the Floquet system.

連絡教員　　西田　祐介（内線 3614）