

Abstract Submitted  
for the DAMOP20 Meeting of  
The American Physical Society

**Reduction of Spectral Method's Sampling Period** NONTAPHAT SINSUNTHITHET, SORAWICH MAICHUM, NARUPON CHATTRAPIBAN, JIRAYU MONGKOLKIATTICHAI, Department of Physics and Materials Science, Chiang Mai University and Thailand Center of Excellence in Physics, Commission on Higher Education — Spectral method characterization of quantum transport of a neutral particle in an optical waveguide structure involves expensive computational resource. In this work we employ various series acceleration methods to reduce the time and space required for a computation of eigen-values from a spatio-temporal correlation. The investigation of the acceleration methods will be presented.

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Date submitted: 03 Feb 2020

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