

## Day 1 (Poster B)

Kohji Nishimura, Jij Inc.

Title: A Simple and Constructive Method to obtain Counter-Diabatic Terms for Quantum Annealing

Abstract:

We propose a constructive method to obtain approximate counter diabatic (CD) terms for quantum annealing. Our method explicitly derives CD terms corresponding to the approximated ground state, while in other approaches we have to add operators that approximate CD terms by hand. Using this construction, we also theoretically justify the conventional ansatz one often considers.