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**Simulation and Prediction of SONGS Reactor Antineutrino Flux Using the DRAGON Code** CHRISTOPHER JONES, JANET CONRAD, Massachusetts Institute of Technology, ADAM BERNSTEIN, Lawrence Livermore National Laboratory — We present a comparison of the predicted antineutrino flux from the San Onofre Nuclear Generating Station (SONGS) PWR reactor with the deterministic lattice code, DRAGON. This simulation will be used to benchmark the DRAGON code for use in predicting an antineutrino flux for the Double Chooz experiment. We can also make a comparison between DRAGON and ORIGEN-ARP, another code used to model the antineutrino flux.

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