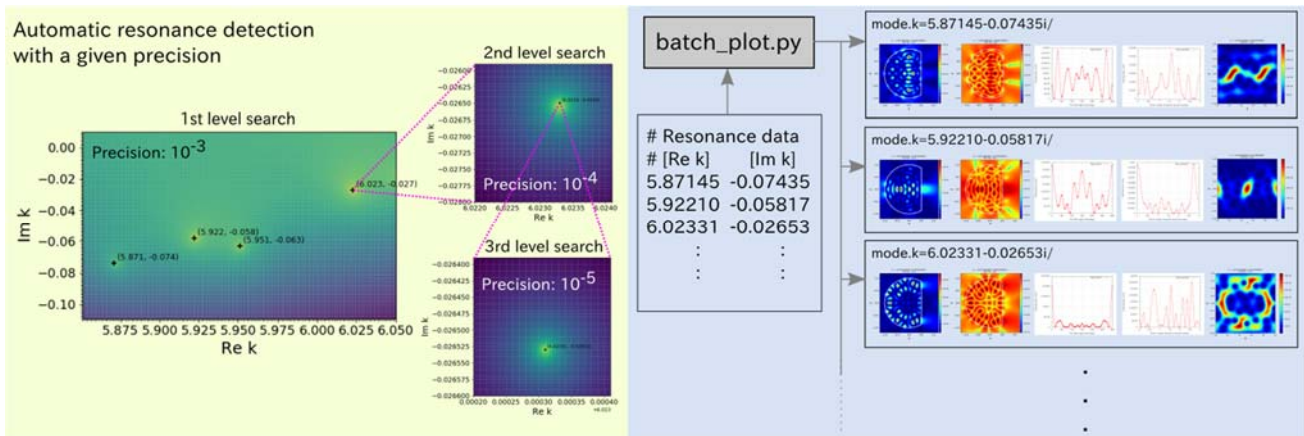


New Release in November 2020
Optical Cavity Mode Solver for 2D Cavities
OCMS 2020 Extension Tools

Extension package for OCMS-2020-Basic featuring (1) an automation tool for detecting resonances, and (2) an automation tool for computing and plotting modal patterns.

This extension package features the following two tools:

- (1) Tool for automatically detecting resonances in the complex wave number space. For a given wave number range, this tool detects resonance positions (i.e., (Re k, Im k)) with a given precision (see the figure below(left)). In addition to full automation of the resonance detection routine, it is performed in parallel using multiple threads. This tool enables the user to largely save the time and effort for a systematic resonance detection.
- (2) Tool for automatically computing and plotting wave functions and Husimi distributions. For a given resonance list, this tool generates image files for the wave function (normal and log scale), far-field and near-field patterns, and Husimi distribution for each of the resonances on the list (see the figure below (right)).



Product Name: OCMS-2020-Extension-Tools

Supported OS: Linux (Recommended: Ubuntu LTS 18.04, 20.04)

Requisite: OCMS-2020-Basic

Contained tools:

- Tool for automatically detecting resonances (autofinder.py).
- Tool for batch computation and plot of wave functions and Husimi distributions (batch_plot.py).

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