

In this project, we want to utilize the exciting code to solve the Bethe-Salpeter equation (BSE) for many different materials. The overarching objective is the establishment of an extensive benchmark database encompassing highly converged core-absorption spectra. We have chosen the exciting code for this project as it uses the most precise basis set and performs no drastic approximation on the core-electrons. To address the challenge of automating the work, a workflow framework developed in-house will be employed to ensure the effective management of the workload.