- This folder includes all the MATLAB scripts for the proposed algorithms:
  1. airPLS.m, the MATLAB script of airPLS algorithm for background correction.
  2. MPLS.m, the MATLAB script of MPLS algorithm for background correction.
  3. Morphology.m, the MATLAB script of morphology function in MPLS.
  4. WhittakerSmooth.m, the MATLAB script of weighted smoothing with a finite difference penalty
  5. screan2png.m, the MATLAB script for generating a png file of the current figure.
  6. AS_airPLS.m, the MATLAB script of AS airPLS algorithm proposed in this paper for collaborative spectra background correction.
  7. CW_airPLS.m, the MATLAB script of AS airPLS algorithm proposed in this paper for collaborative spectra background correction.
  8. AS_MPLS.m, the MATLAB script of AS airPLS algorithm proposed in this paper for collaborative spectra background correction.
  9. CW_MPLs.m, the MATLAB script of AS airPLS algorithm proposed in this paper for collaborative spectra background correction.
  10. simulated_compare.m, the main MATLAB script to compare different algorithms.
- To run all the algorithms on the simulated data, please run **simulated_compare.m** in Matlab
- For comparison, the source codes of MPLS and airPLS are included.
- We acknowledge and thank the codes of airPLS and MPLS obtained from Dr. Zhimin Zhang's website.