

# Review of: "A Computer Simulation Study on Ion Optics Aiming at the Realization of Projection-Type Mass Spectrometry Imaging"

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Potential competing interests: No potential competing interests to declare.

## General comments:

This manuscript answered several key questions regarding projection-type mass spectrometry imaging. The simulation work is solid and very helpful for the development of such a type of mass spectrometer.

Here are some details that need to be improved/modified:

1. Figure 2 is unclear. It says "Solid and dotted lines indicate before and after voltage switching, respectively." It is not. If it is, the solid and dotted lines should be linear between electrodes. The solid line is likely the voltage that ions fly through.
2. The space charge may not affect the results. However, the author needs to discuss this in the paper. This may greatly affect the point convergence of ions.
3. For the point convergence in Figure 6, what is the initial ion condition? Different initial ion conditions should result in different optimized parameters.
4. How was the resolution calculated? Need more details.
5. A conclusion paragraph is needed. At least answer the questions in the paper.