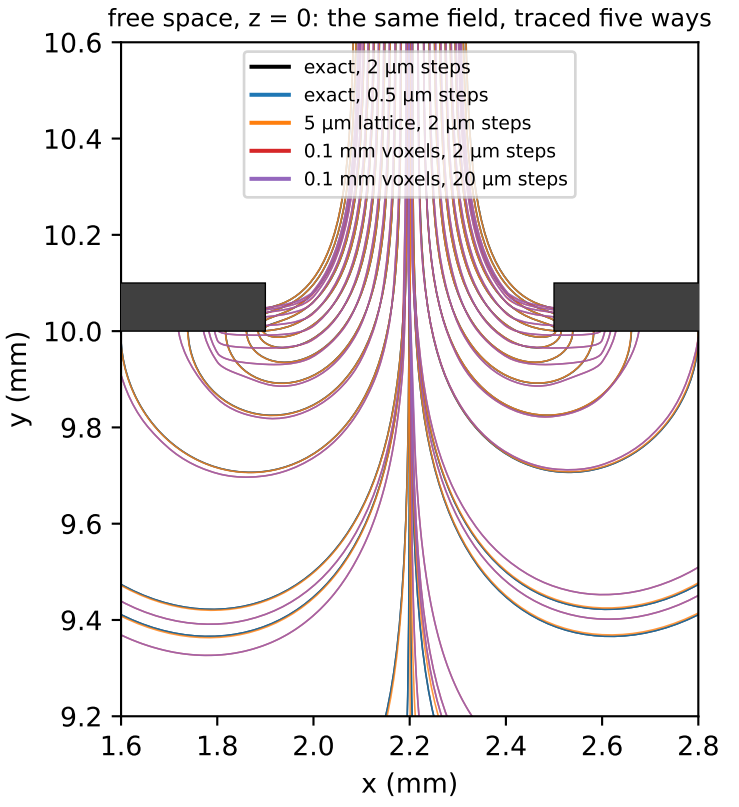
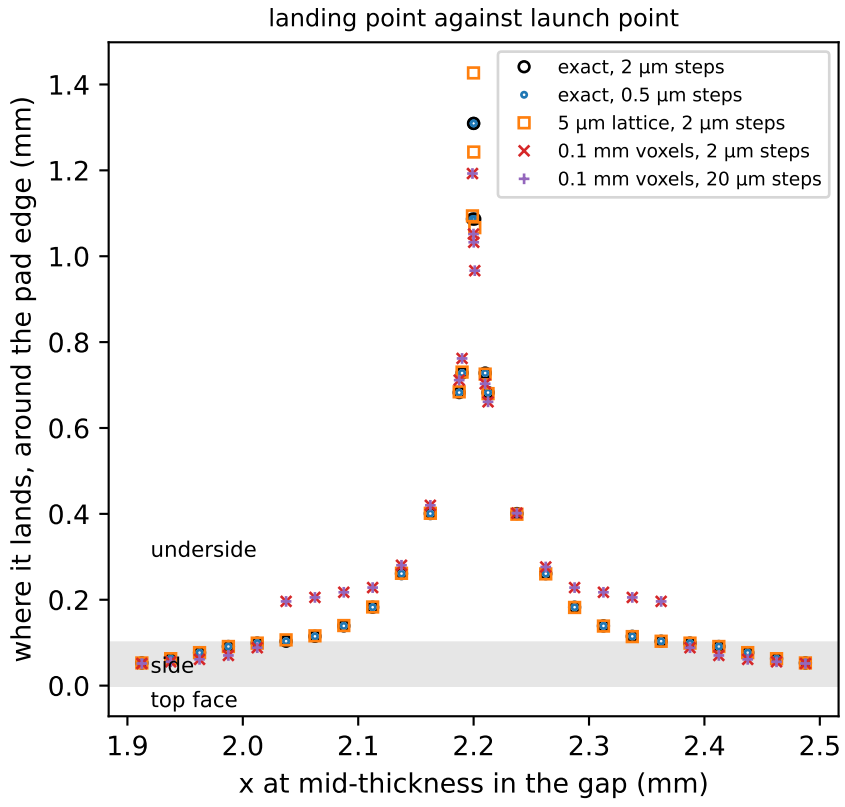
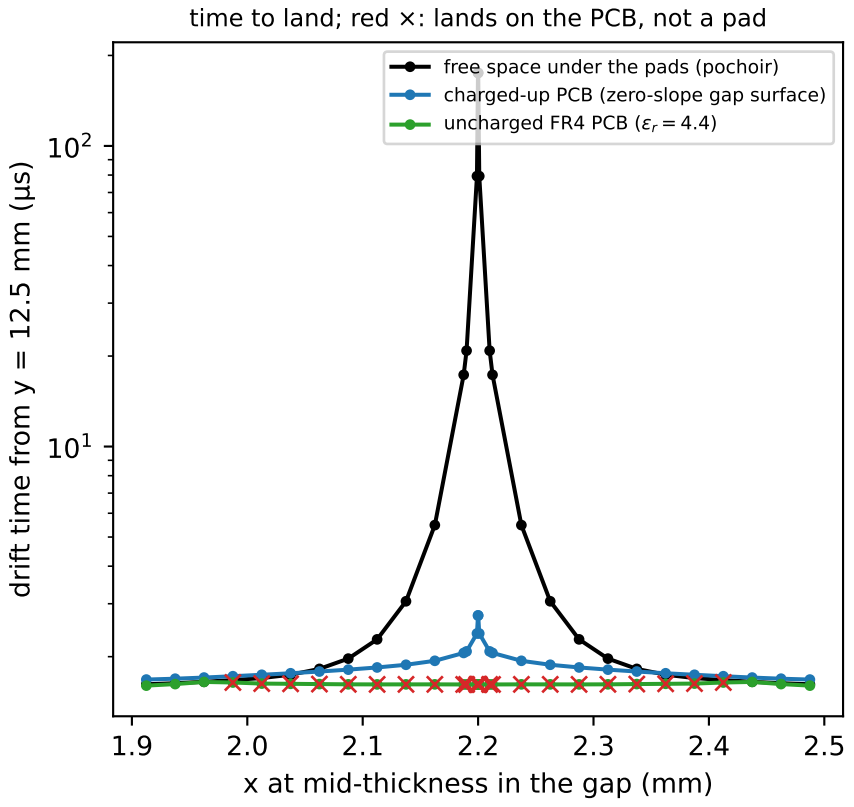

free space, z = 0: the same field, traced five ways
exact, 2 µm steps
exact, 0.5 µm steps
5 µm lattice, 2 µm steps
0.1 mm voxels, 2 µm steps
0.1 mm voxels, 20 µm steps
y (mm)
x (mm)


landing point against launch point
exact, 2 µm steps
exact, 0.5 µm steps
5 µm lattice, 2 µm steps
0.1 mm voxels, 2 µm steps
0.1 mm voxels, 20 µm steps
underside
side
top face
where it lands, around the pad edge (mm)
x at mid-thickness in the gap (mm)


time to land; red ×: lands on the PCB, not a pad
free space under the pads (pochoir)
charged-up PCB (zero-slope gap surface)
uncharged FR4 PCB ($\varepsilon_r = 4.4$)
drift time from y = 12.5 mm (µs)
x at mid-thickness in the gap (mm)