1. COMSOL\_B0.txt has positions and fields generated from COMSOl.
2. Testcylinder\_xyz.csv, has X\_NEW, Y\_NEW, Z\_NEW found by using your code:
   1. # R, PHI, Z\_NEW = np.meshgrid(r\_new, azi\_new, z\_new)
   2. # X\_NEW = R \* np.cos(np.radians(PHI))
   3. # Y\_NEW = R \* np.sin(np.radians(PHI))
3. Initial\_df is the df of x, y,z, Bx, By , Bz found using RegularGridInterpolator
4. Mapper\_df is same as initial\_df, but noise can be added on mapper\_df and to avoide the confusion, we write positionscolumn by 'mapper\_x', 'mapper\_y', 'mapper\_z'
5. The opm\_hf is for opm, and has colums: opm\_x, opm\_y, opm\_z
6. The hg\_df is for average mercury and has coordiantes , hg\_x, hg\_y, hg\_z
7. Cloudy\_coordinates\_df of cloudy\_x, cloudy\_y, cloudy\_z, are new locations, where we want to test physics equations,
8. combined\_x = torch.cat([mapper\_x, opm\_x, hg\_x, cloudy\_x], dim=0), basically combined\_x combines all the locations in the cell region to test physics equations