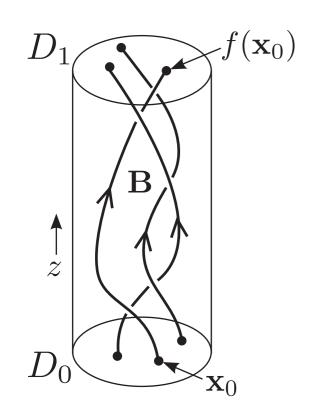
Problem of the Fix-point

Why it's NOT easy to be used in the coronal case.

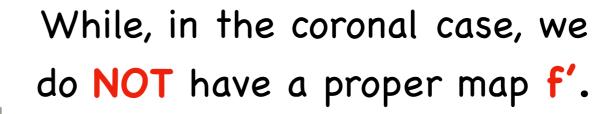


We need a self-map, in the upright B field configuration, it's easy to define the self-map. Yeates et al. 2010 - 2011 define the self-map by the field from D_0 to D_1 , then neglect the z coordinate.

1,
$$f: D_0 \rightarrow D_1$$
;

2,
$$f': D_1 \rightarrow D_0$$
.

The final self-map is $f' \circ f$, where $f' : (f(x)_x, f(x)_y, f(x)_z) \longrightarrow (f(x)_x, f(x)_y, 0)$.



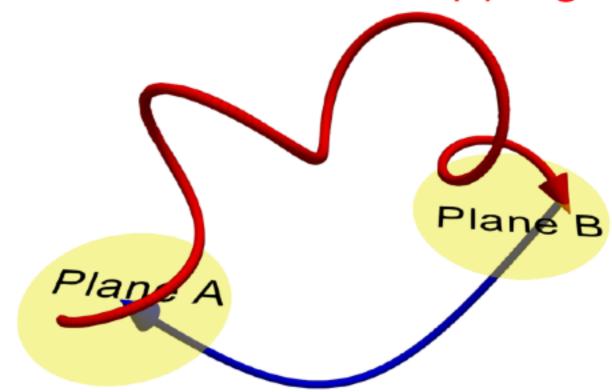


Generalized Fix-point

Using confined potential field as the map f', which is geometrical consistent with the isolate topological domain.

Then, we could have a relative fix-point of the topological B field.

Real Field Line Mapping



Reference Field Line Mapping