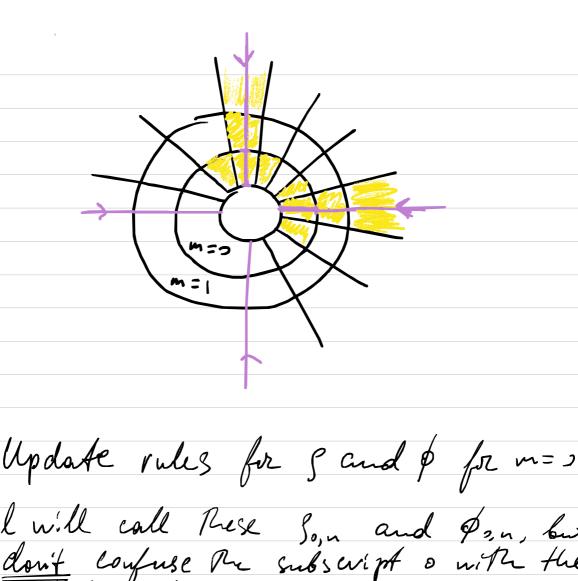
May 1, 2025

m=2

Ibrui nology: "Harch bleeting code" is the code That was used to generate results for blarch blecting. Here the mass from microtubules is exchanged with the diffusive larger only on rays " directly underwork it" i.e. on rays with the same angles.

lu contrast, what we attempted to do since the blanch blecting (and ce far failed) is a "rectampler where the mass from a micropuble exchanges with the diffusive layer with a certain distance d.

Here I propose a smaller step among from the blood blerking code of this or this ed code or will work exactly him the the blood bleeking code of a capt for m= > ving (the one i'm mediately surrounding the central patch) and the m=> ving a microthole will exchange the mass with vays not only directly other patches immediately surrounding it (see yellow patches)



l will call Prese So,n and Pon, but don't confuse the subscript o with the Central patch.

•  $f_{s}(h+1) = f_{s}(h) - (j_{R} - j_{L})$  at + aaraat } pan (h) + pan-, (h) + pan+, (h) } - b f, (h) ot his section of the unicotible vectives mas from the parties

•  $p_{2n}(h+1) = p_{2n}(h) - \Delta t \left(2J_R^{\dagger} - J_L^{\dagger}\right)$ - st [Je3 - Je3]

- c p, n (h) st + 6 3 So(h) st

only of the moss lost by the segment I of the microtubule gots to each of the the gots to each of the typee gellen pat dies on the mes ring

Everything else in the code would be exactly the same as I the land.

Meeting code. We are only modifying
the way in which wass is exchanged betveet a suter of a microtubule and neighboring patches on the DL

Therefore, it is best to hardle these m=0 changes with "if" statements resture that writing loops, etc. This way the changes are transpersent and we can always turn them off lasily to track where errors happen (ex! if mass isn't conserved again).