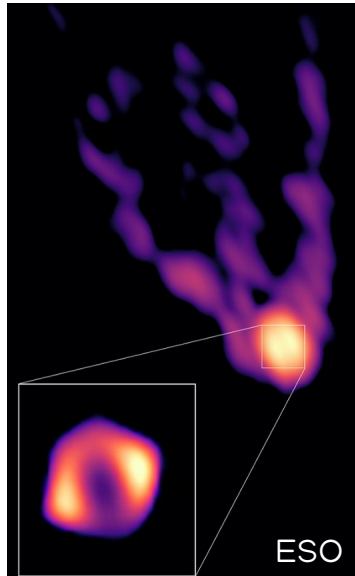


PIC Simulations of Sheared Asymmetric Relativistic Magnetic Reconnection

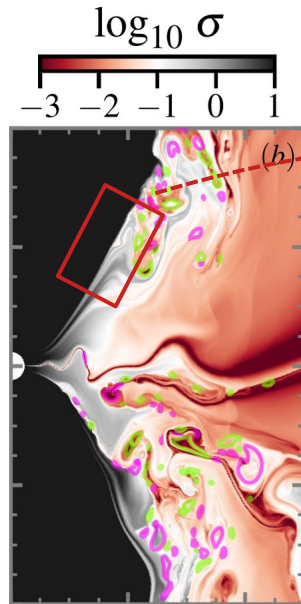
Enzo Figueiredo, 1st year PhD



Strong discontinuity of plasma properties at BH disk–jet interface

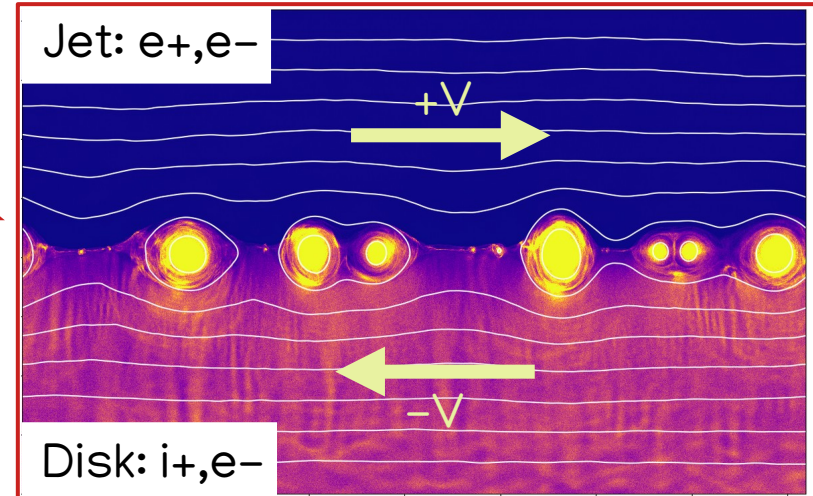


M87* jet, VLBI observation



Courtesy of Jesse Vos

Local study of a magnetic reconnection process



Highlights:

- the disk particles get most of the EM energy
- shear slows and quenches the reconnection

Future work:

- extension to a global model

How is particle acceleration affected by an asymmetric setup ?