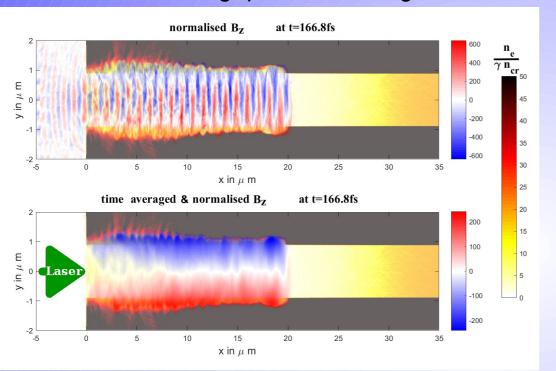
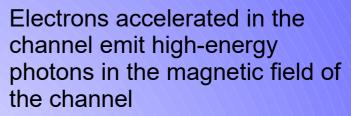
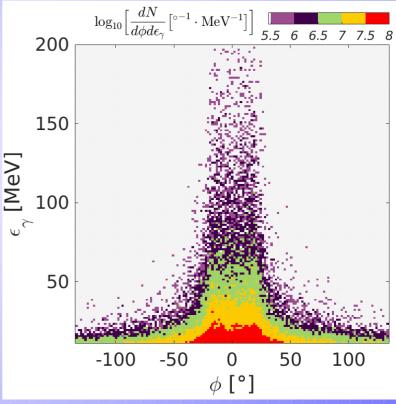
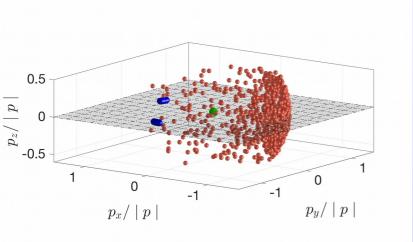
Oliver Jansen UCSD - MAE

A laser pulse inside a plasma channel leads to the formation of a strong quasi-static magnetic field









Those photons can be used for several applications. Here, they are collided in order to create electron-positron pairs

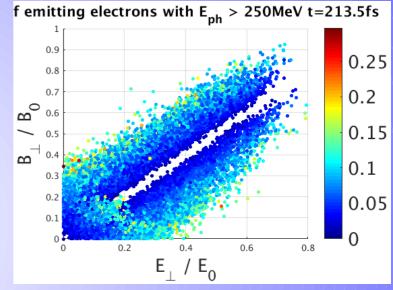
(The inverse to the annihilation of an electron and one positron).

Oliver Jansen UCSD - MAE

Challenges:

Post-processing of large data

Visualization (of large data)



Development of efficient, parallelized

simulations

