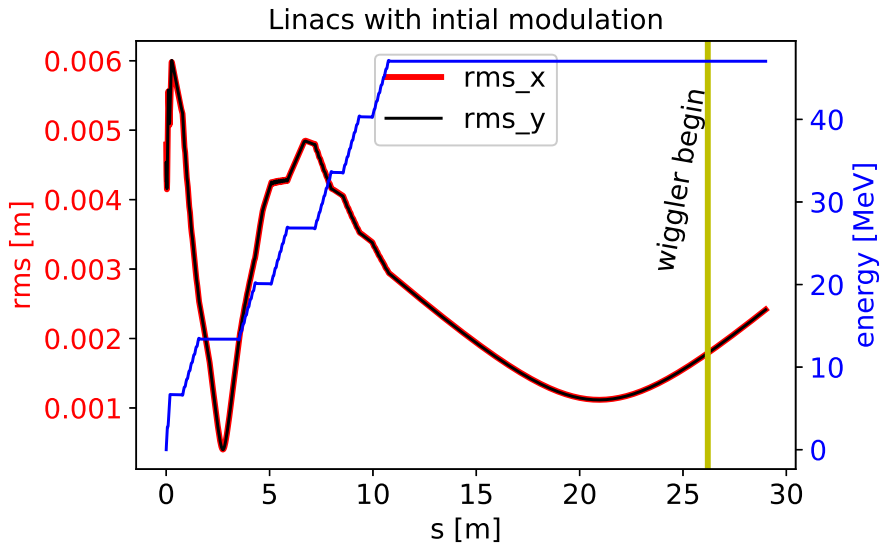


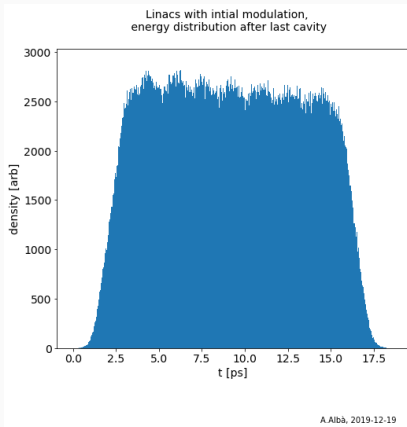
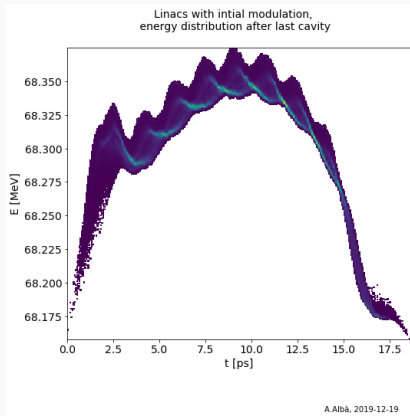
Current State of the Model

- Surrogate model up to first quadrupole
- Quadrupole strengths found analytically. Only using IMP quads.
- Next steps:
 - Include quadrupoles and wiggler in surrogate model
 - What are the optimisation goals for the wiggler?

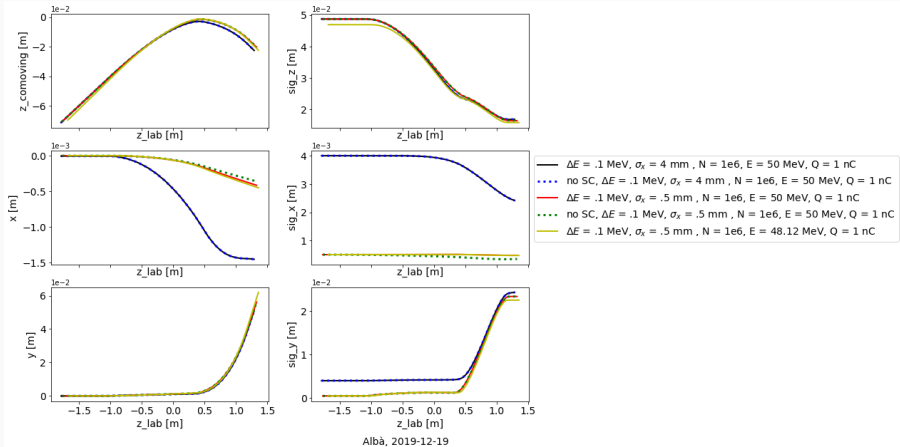
Current State of the Model



Current State of the Model

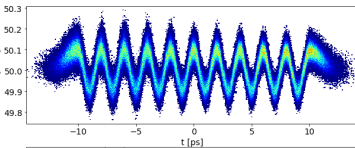


Wiggler Optimisation goals/interests?

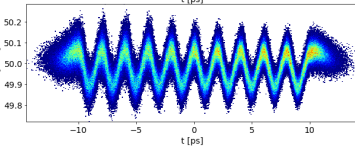


Wiggler Optimisation goals/interests?

tests/test5, $\Delta E = .1$ MeV, $\sigma_x = .5$ mm, $N = 1e6$, $E = 50$ MeV, $Q = 1$ nC

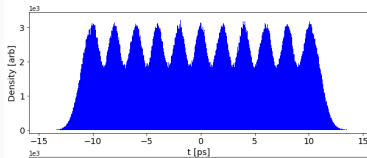


screen position = -0.4 m

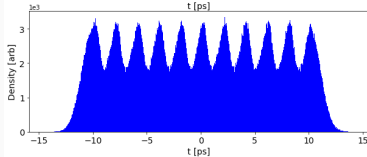


screen position = 0.88 m

tests/test5, $\Delta E = .1$ MeV, $\sigma_x = .5$ mm, $N = 1e6$, $E = 50$ MeV, $Q = 1$ nC



screen position = -0.4 m



screen position = 0.88 m