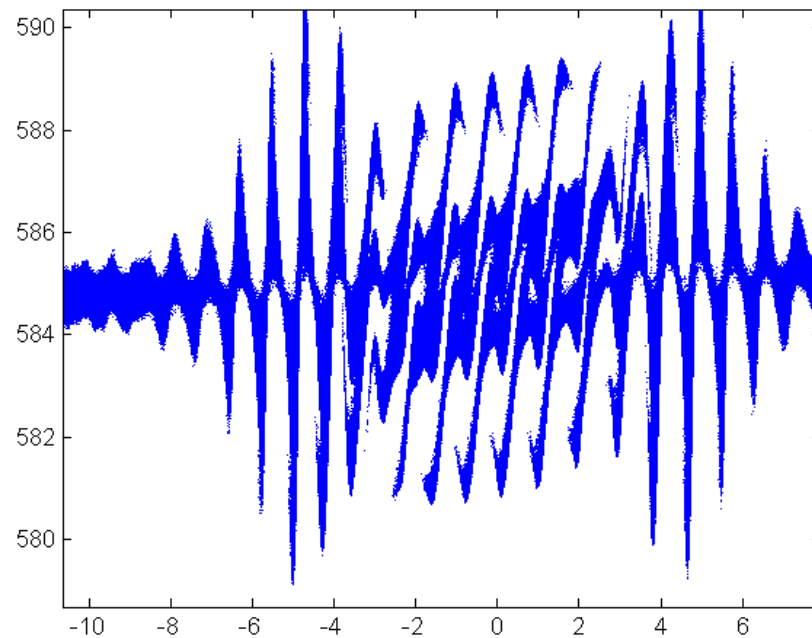


SASE Killer

FLASH Simulations

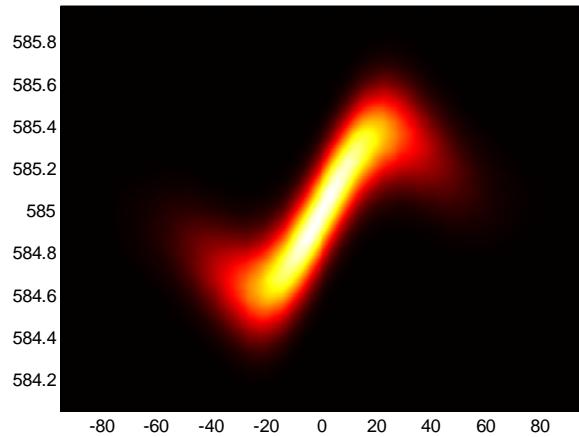


Igor Zagorodnov

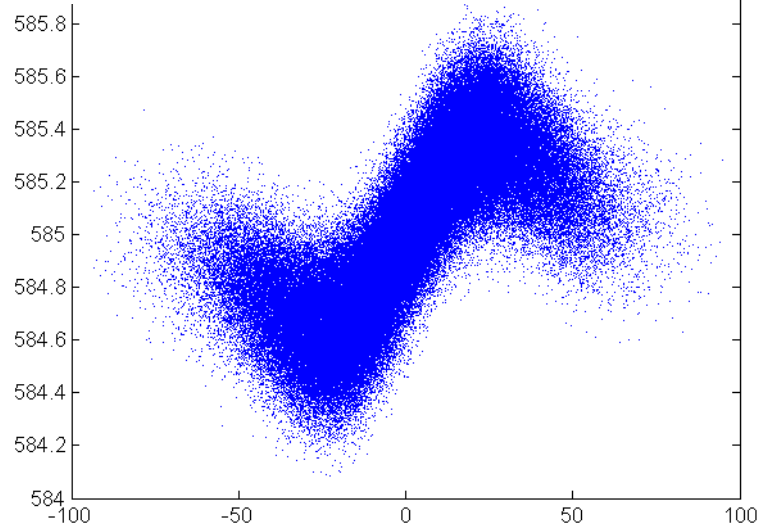
S2E Meeting

DESY
24 June 2014

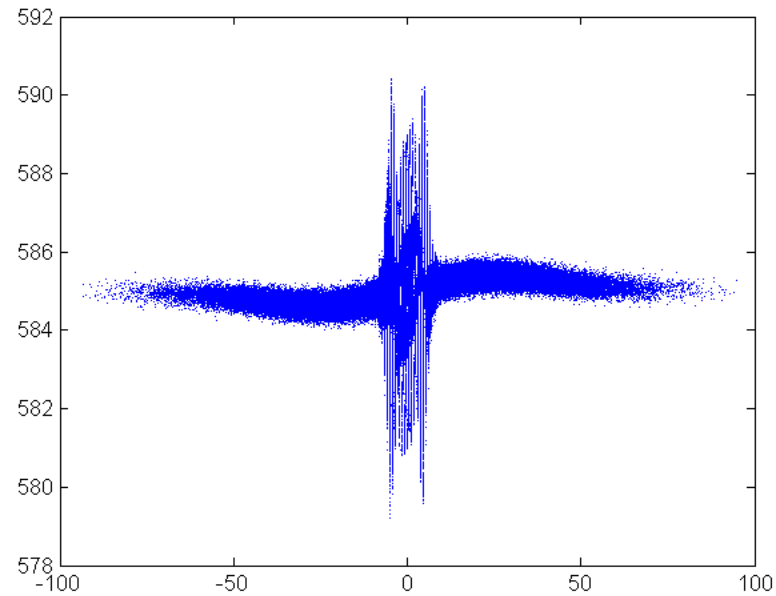
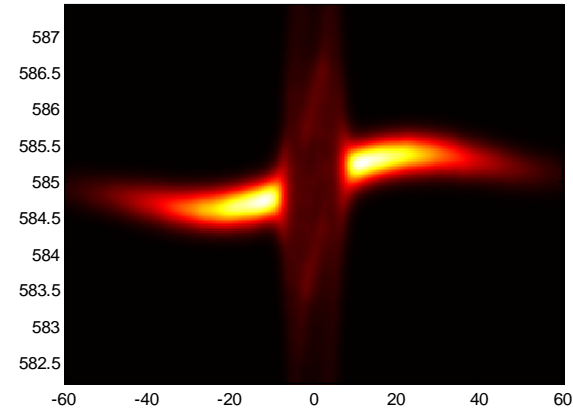
Quiet and Modulated Bunches



E [MeV]



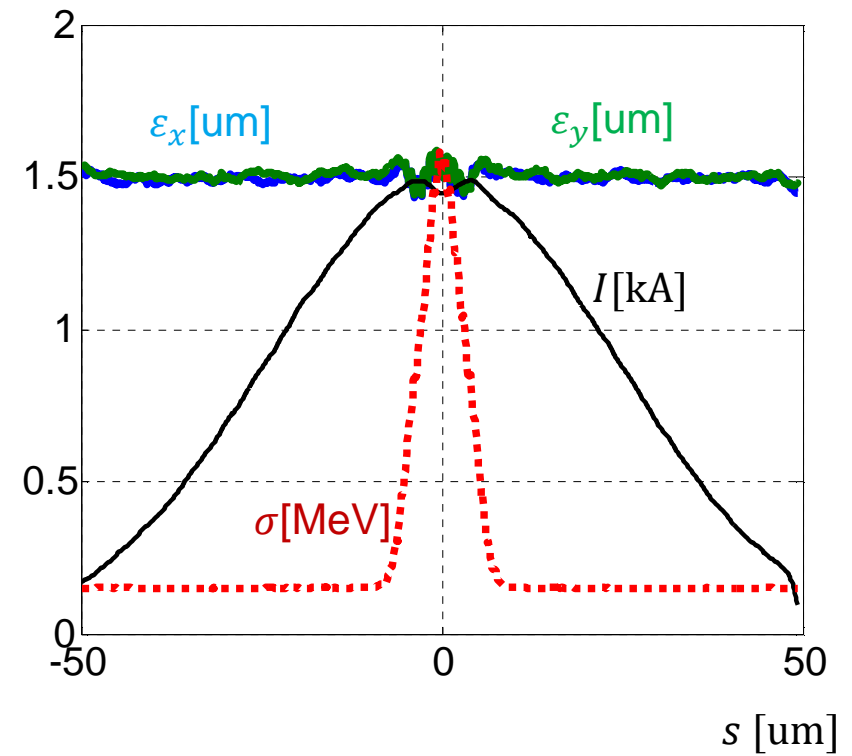
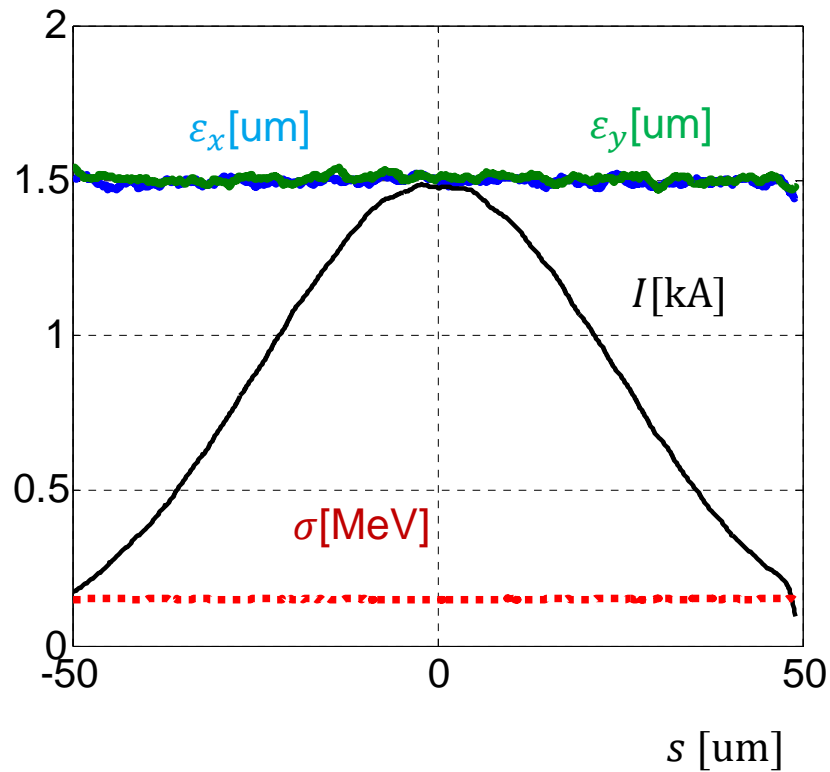
s [um]



s [um]



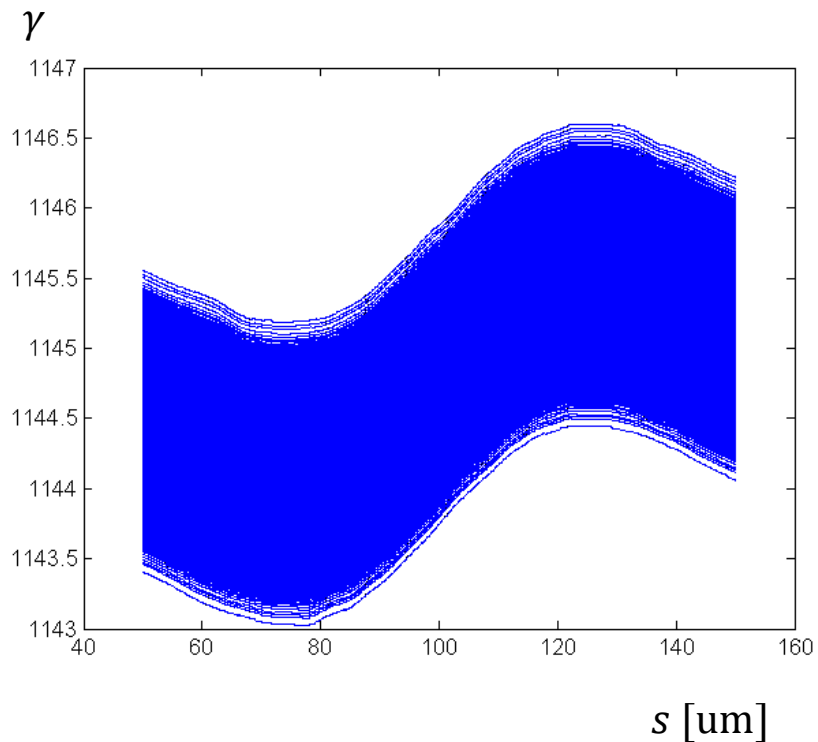
Quiet and Modulated Bunches



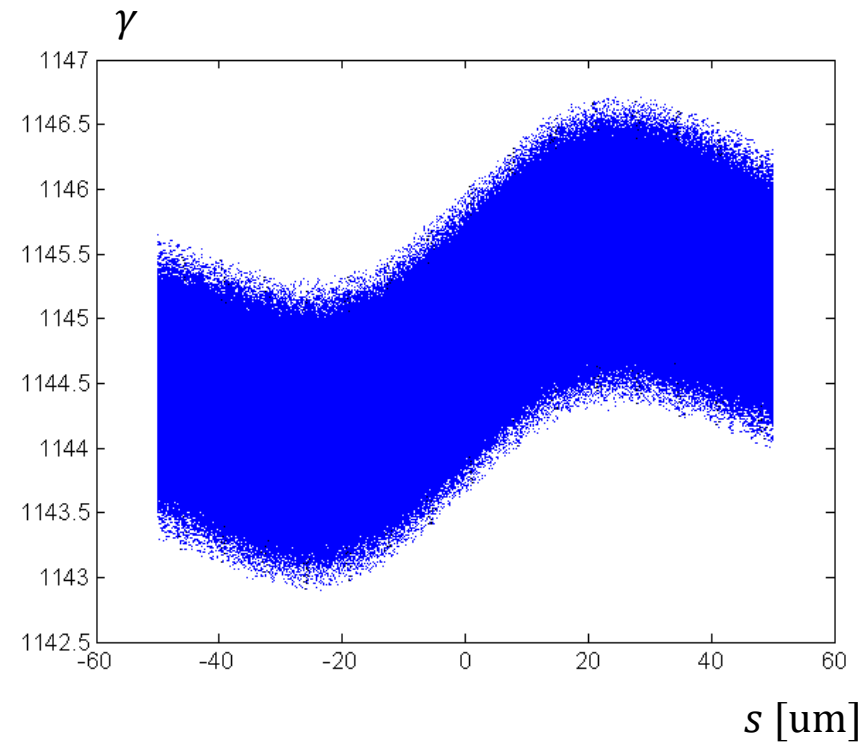
Quiet Beam

At the beginning of the undulator

ALICE particle distribution generated from first and second slice moments



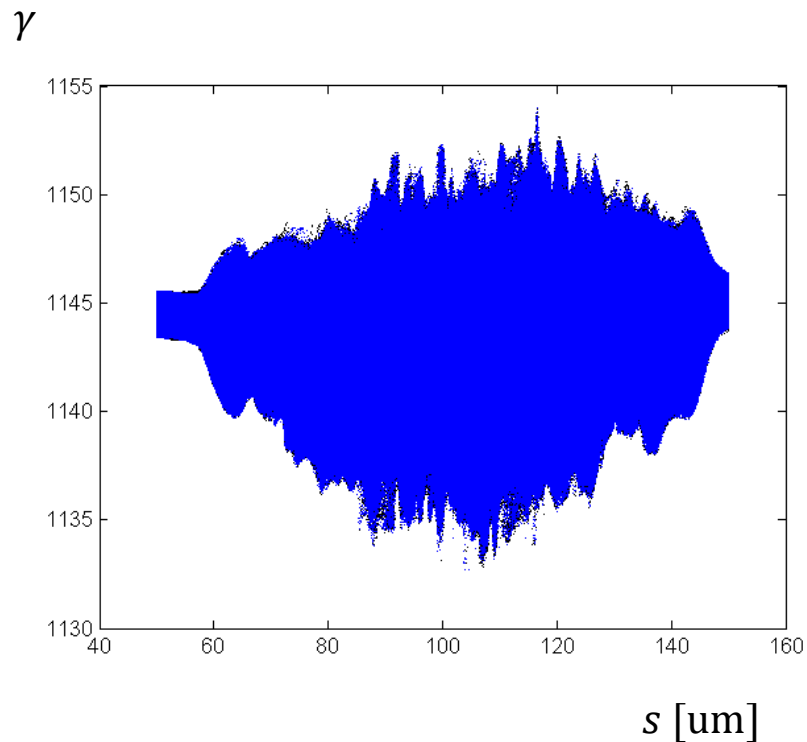
ALICE particle distribution generated from ASTRA file



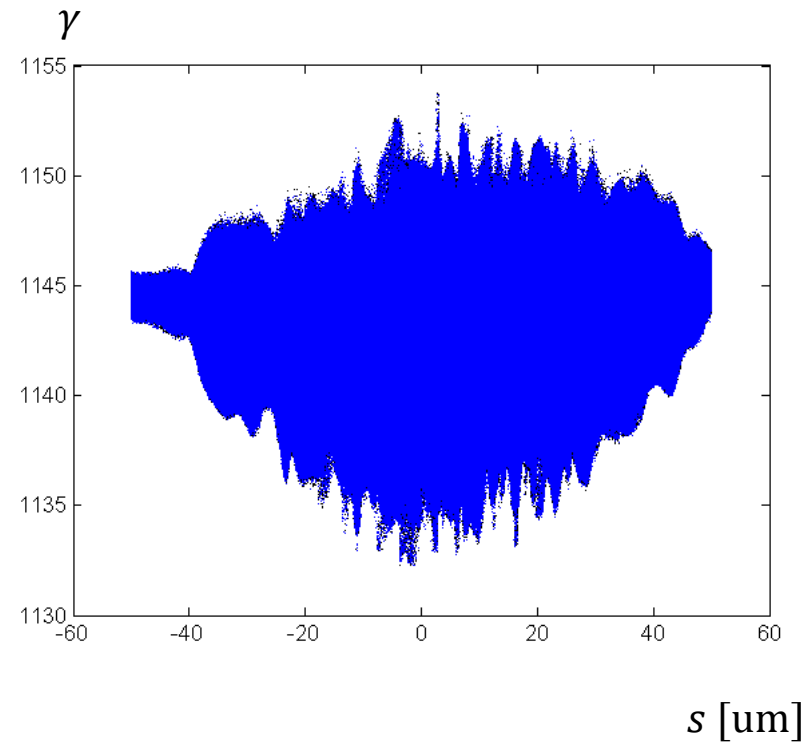
Quiet Beam

At the end of the undulator

ALICE particle distribution generated from first and second slice moments



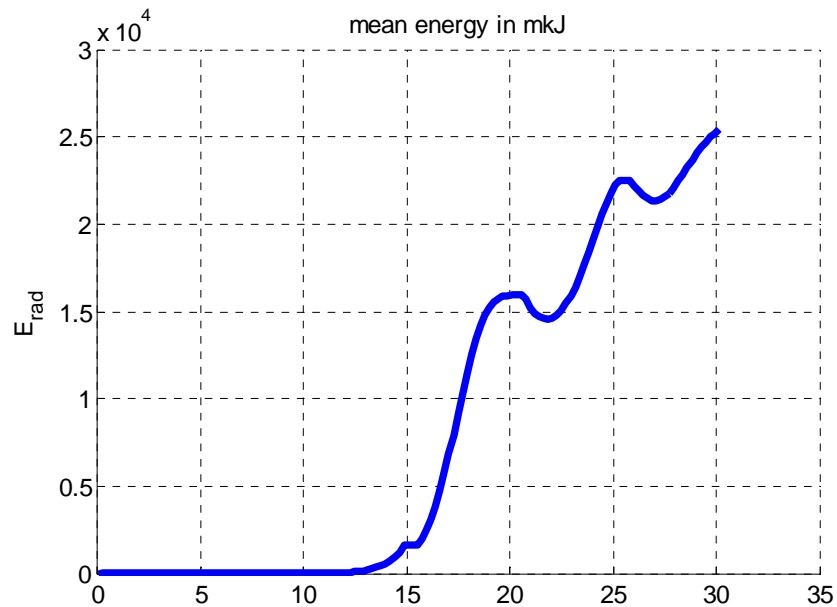
ALICE particle distribution generated from ASTRA file



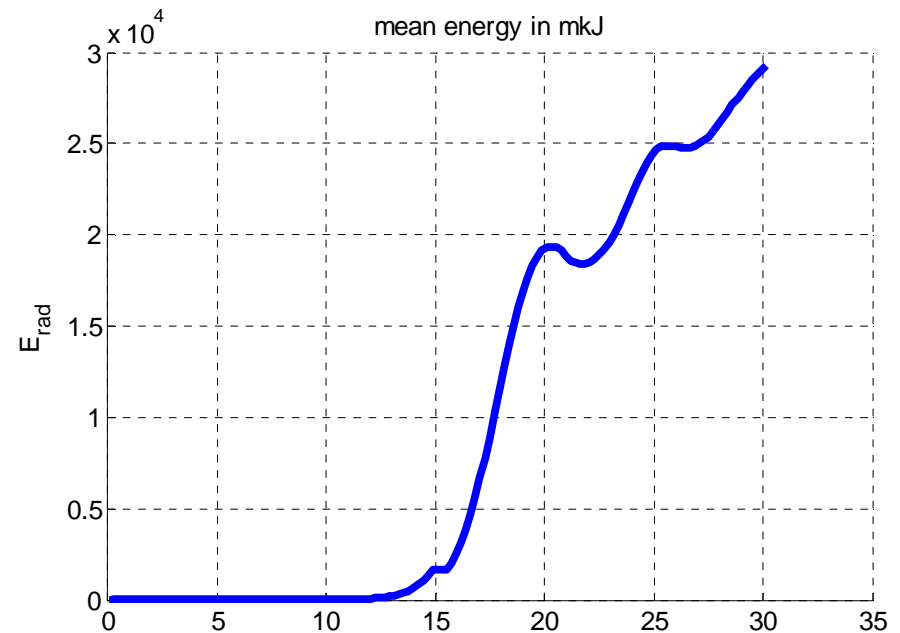
Quiet Beam

Radiation energy (one shot)

ALICE particle distribution generated from first and second slice moments



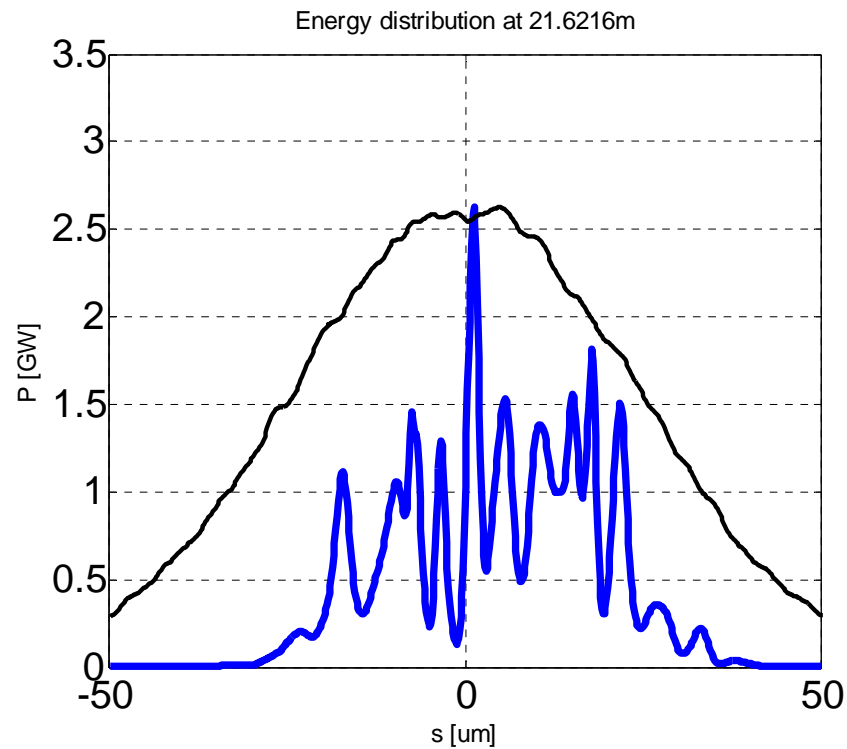
ALICE particle distribution generated from ASTRA file



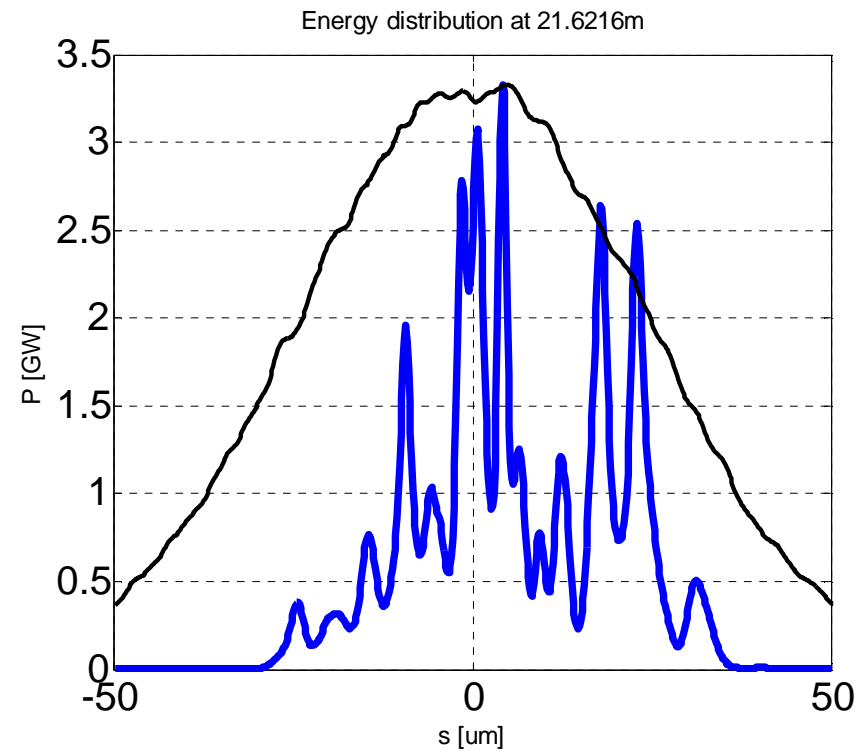
Quiet Beam

Radiation power (one shot)

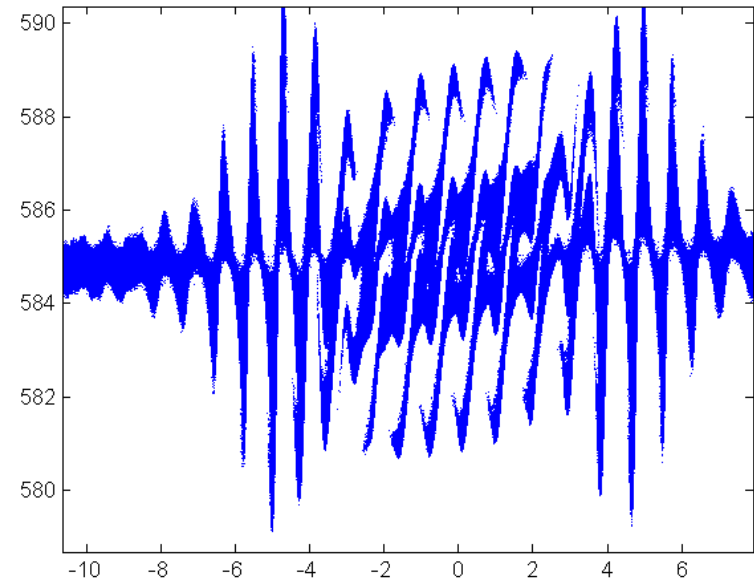
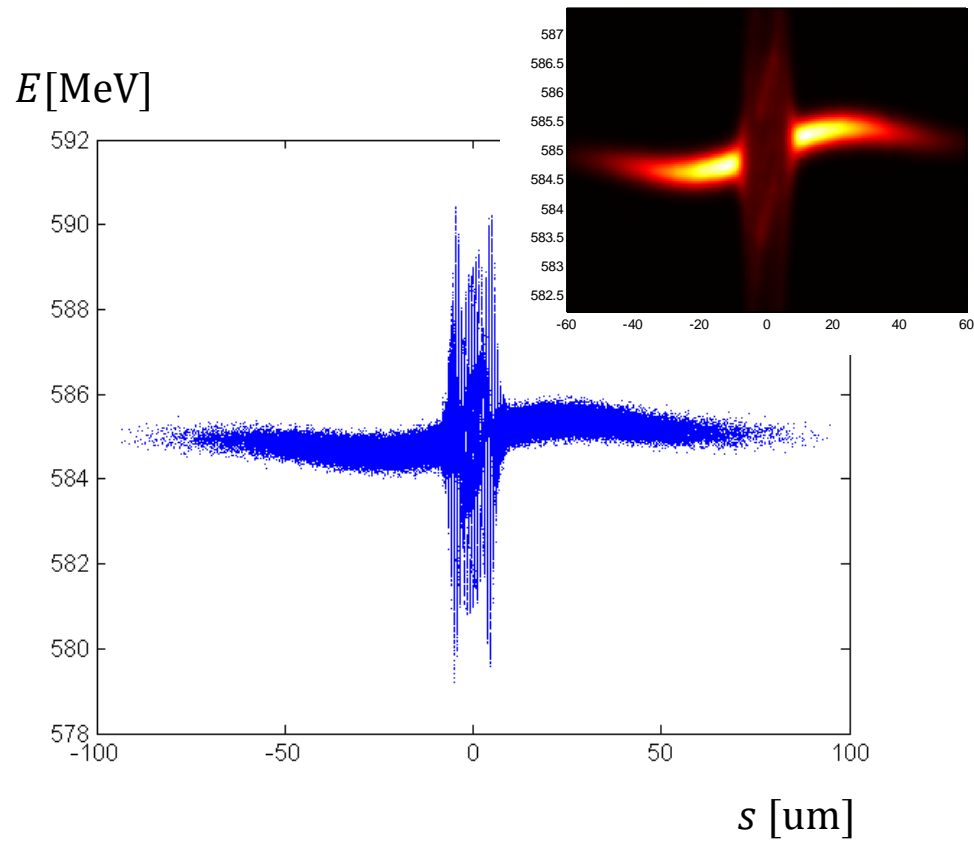
ALICE particle distribution generated from first and second slice moments



ALICE particle distribution generated from ASTRA file



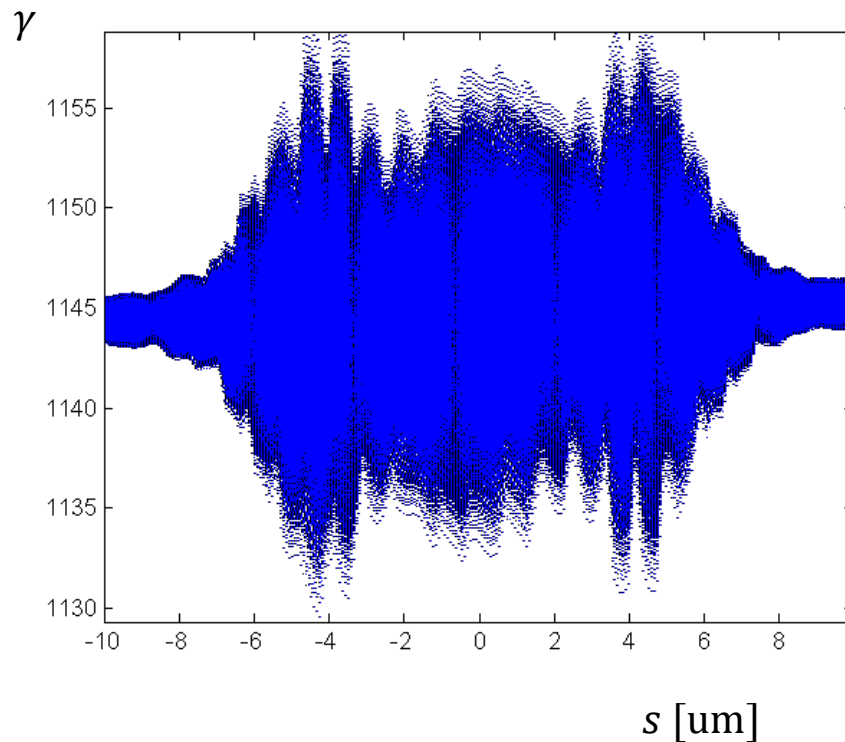
Modulated Beam



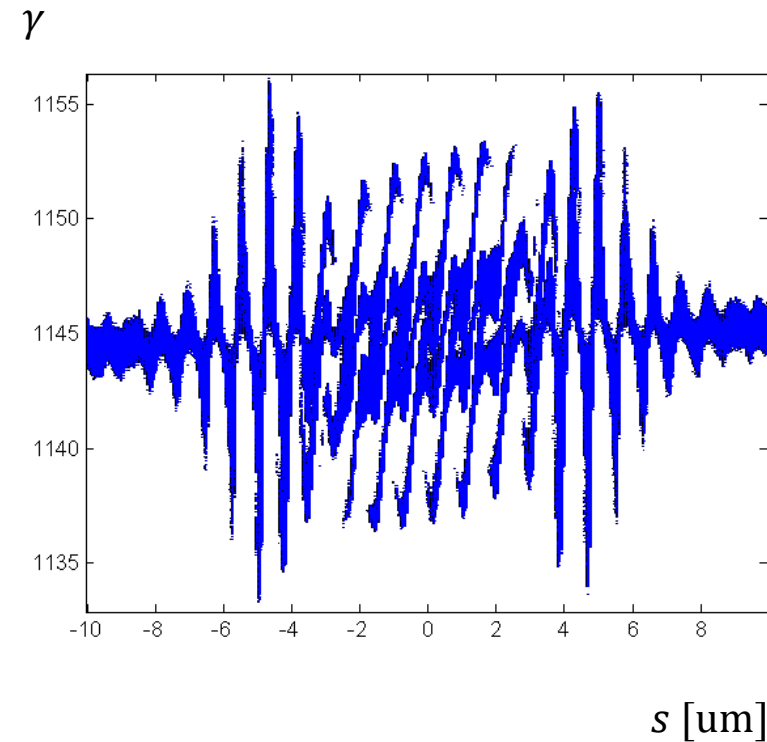
Modulated Beam

At the beginning of the undulator

ALICE particle distribution generated from first and second slice moments



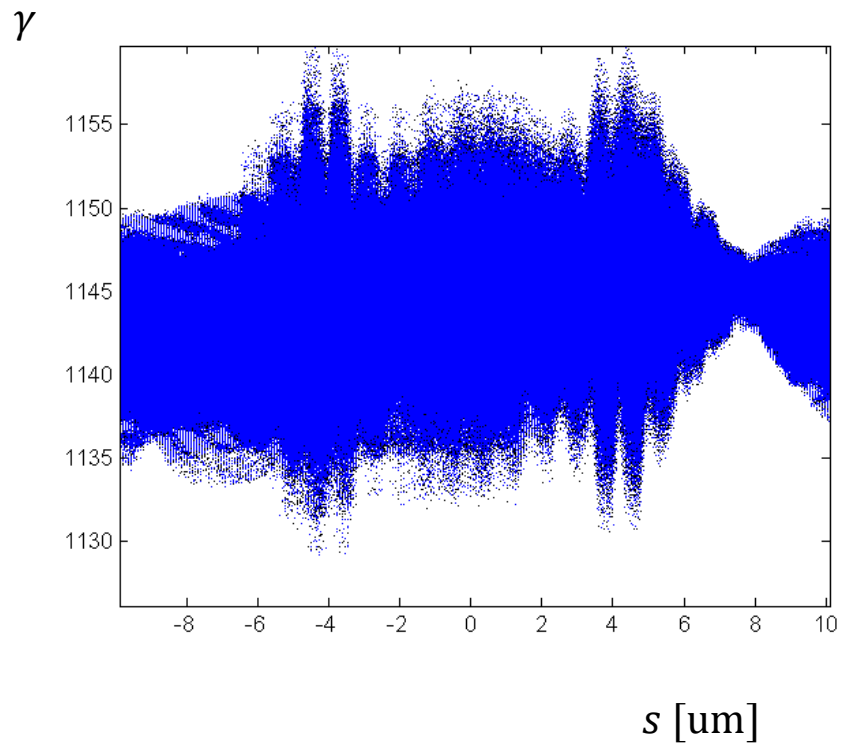
ALICE particle distribution generated from ASTRA file



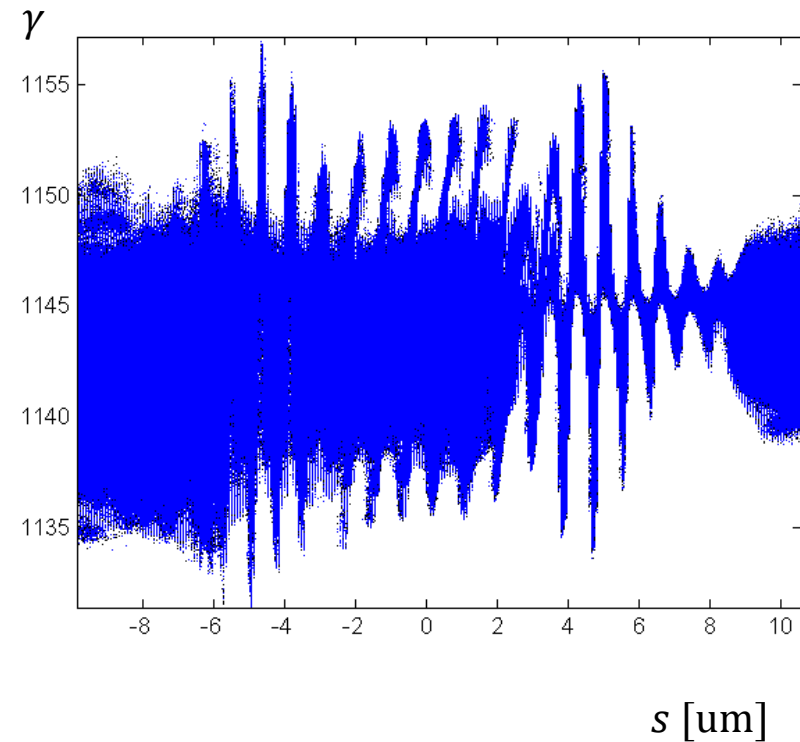
Modulated Beam

At the end of the undulator

ALICE particle distribution generated from first and second slice moments



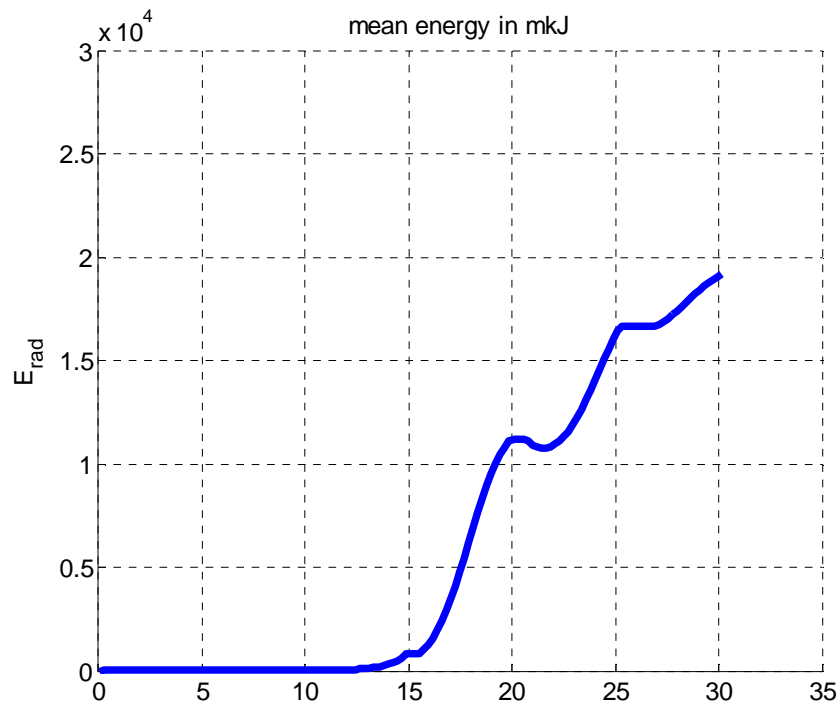
ALICE particle distribution generated from ASTRA file



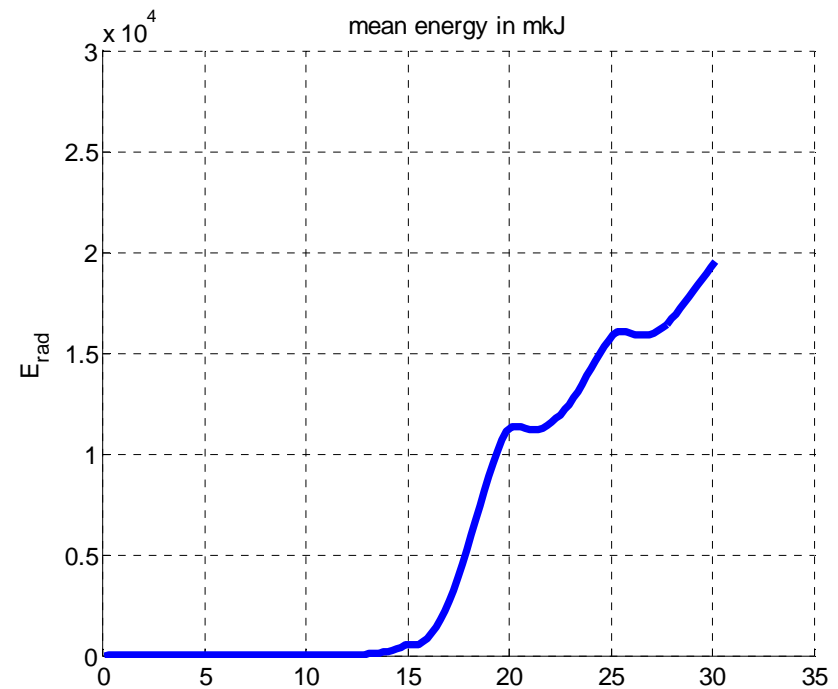
Modulated Beam

Radiation energy (one shot)

ALICE particle distribution generated from first and second slice moments



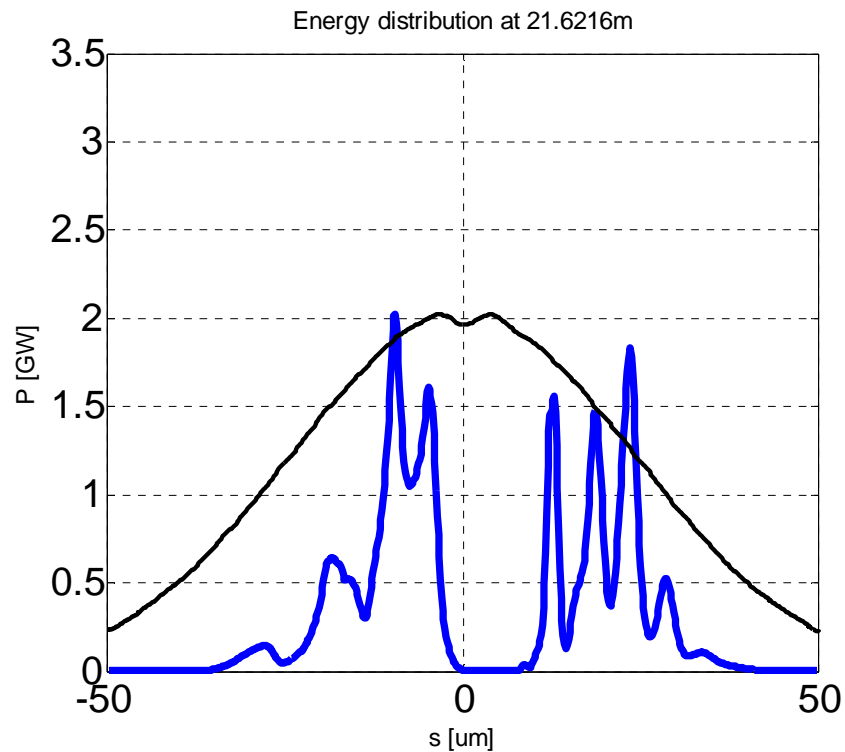
ALICE particle distribution generated from ASTRA file



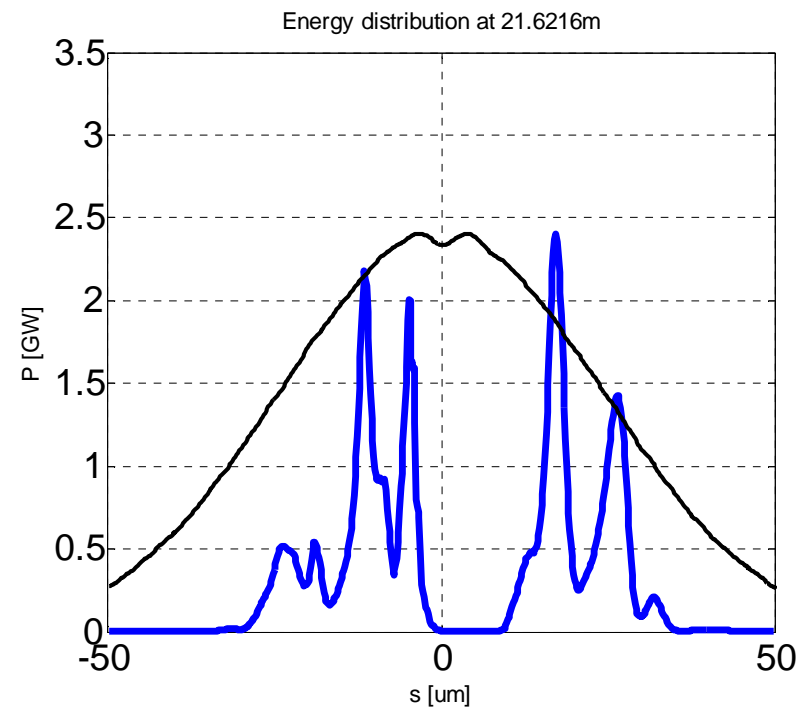
Modulated Beam

Radiation power (one shot)

ALICE particle distribution generated from first and second slice moments

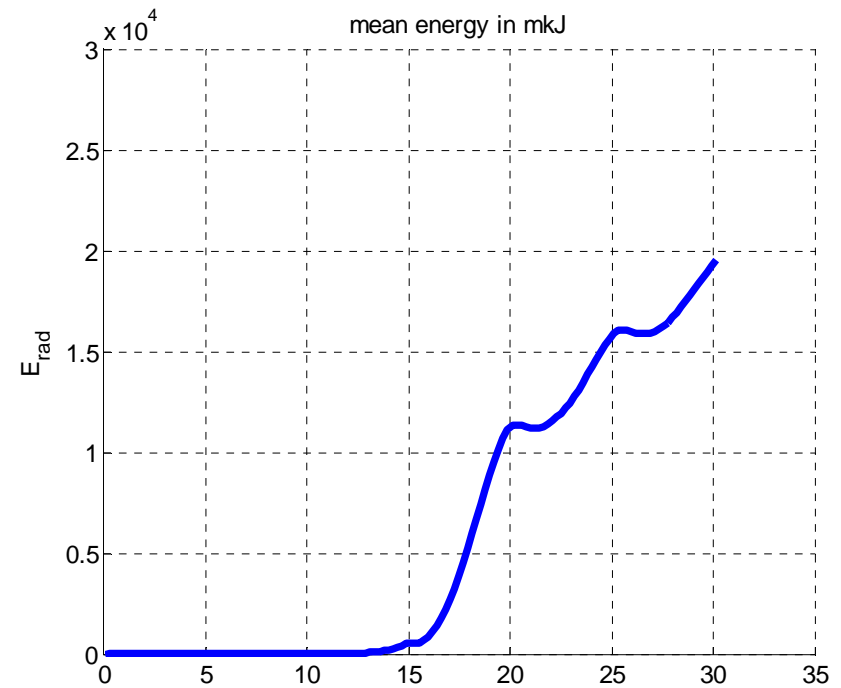
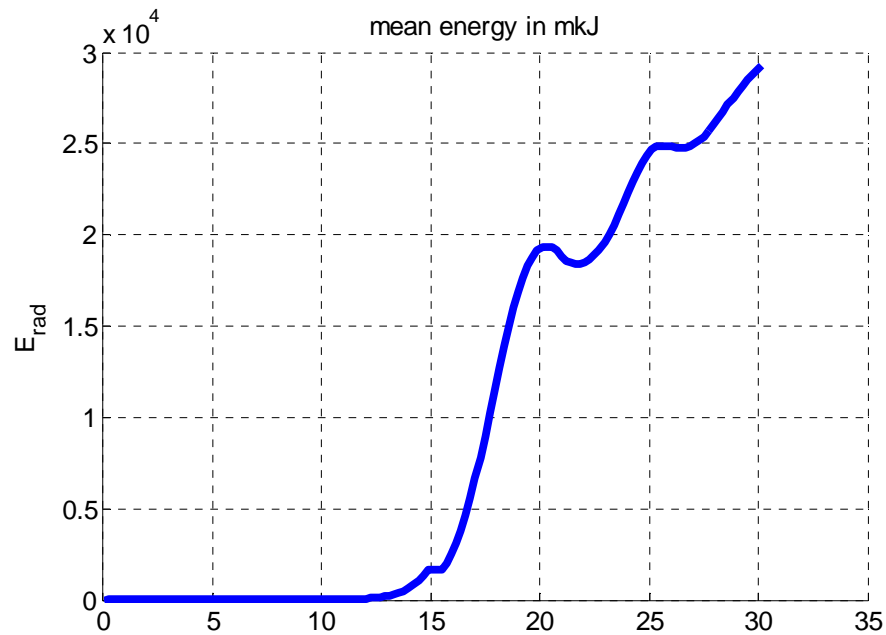
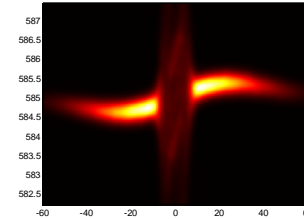
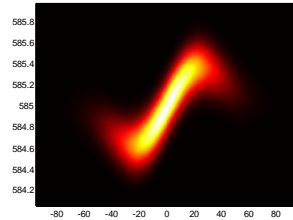


ALICE particle distribution generated from ASTRA file



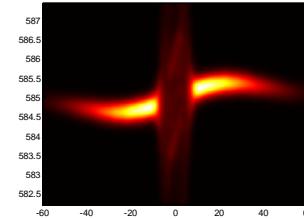
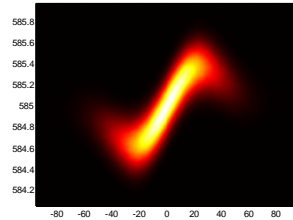
Quiet and Modulated Beams

Radiation energy (one shot)

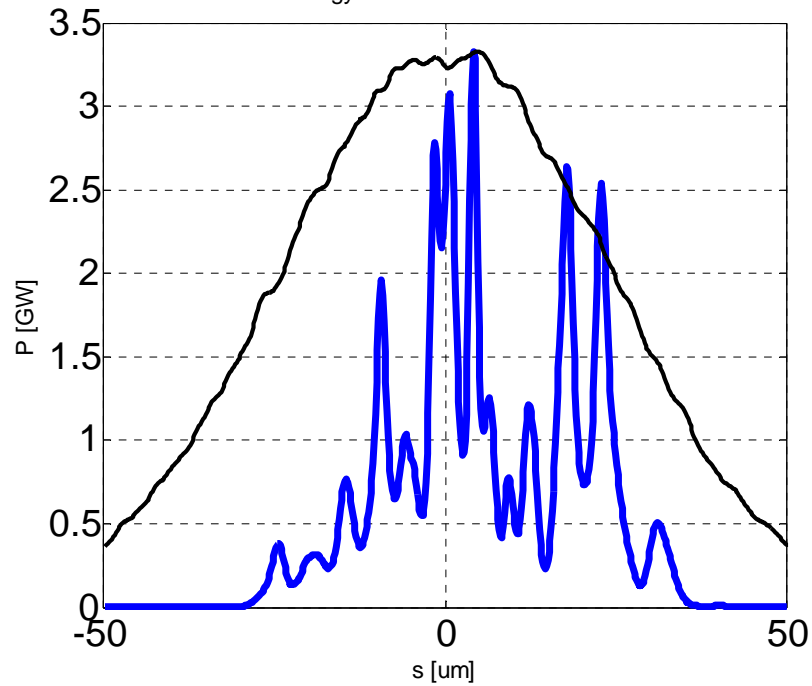


Quiet and Modulated Beams

Radiation power(one shot)



Energy distribution at 21.6216m



Energy distribution at 21.6216m

