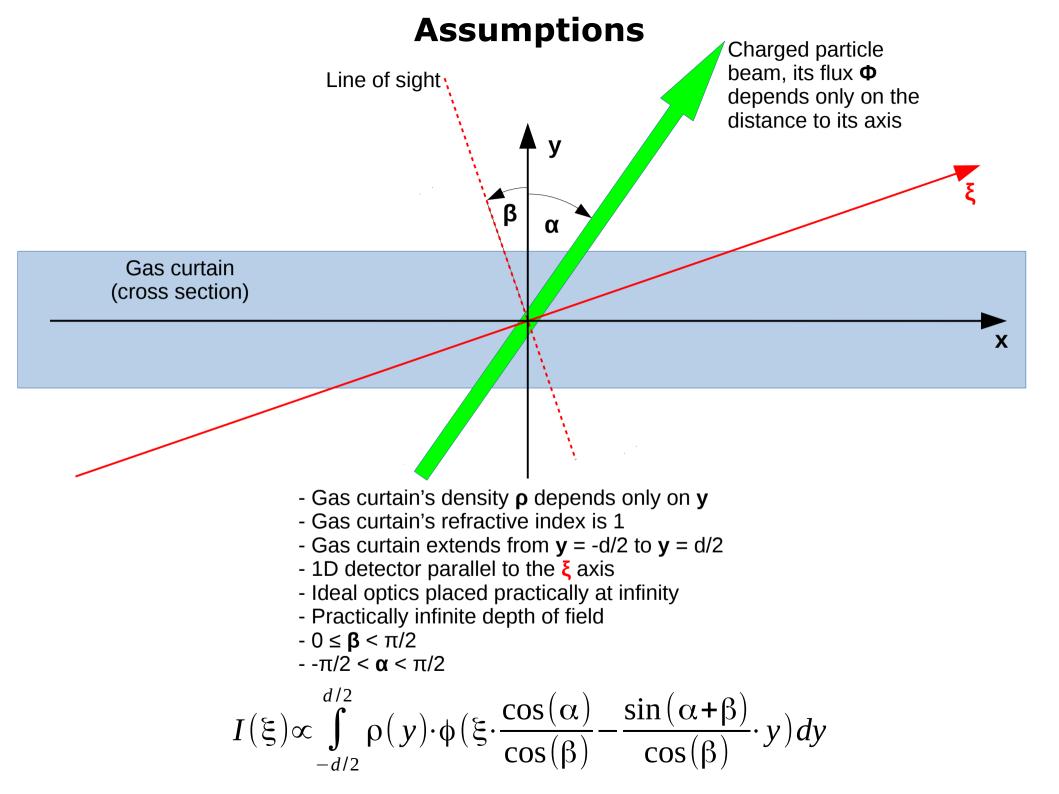
Influence of gas curtain parameters on detected profile

Serban Udrea Peter Forck GSI

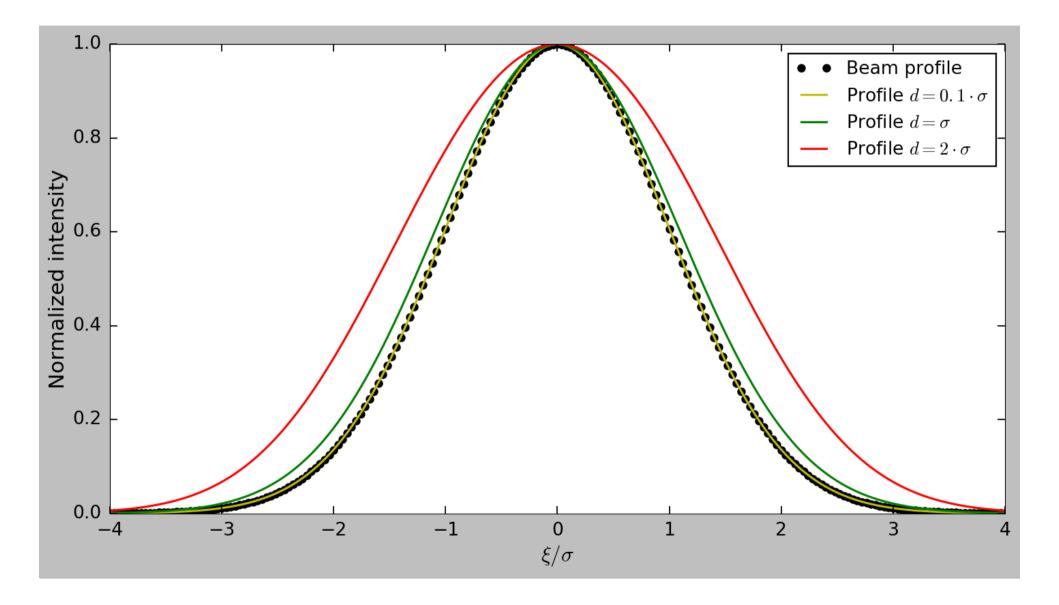
Motivation

The thickness of the gas curtain and the transverse distribution of the gas density affect the detected beam profiles.

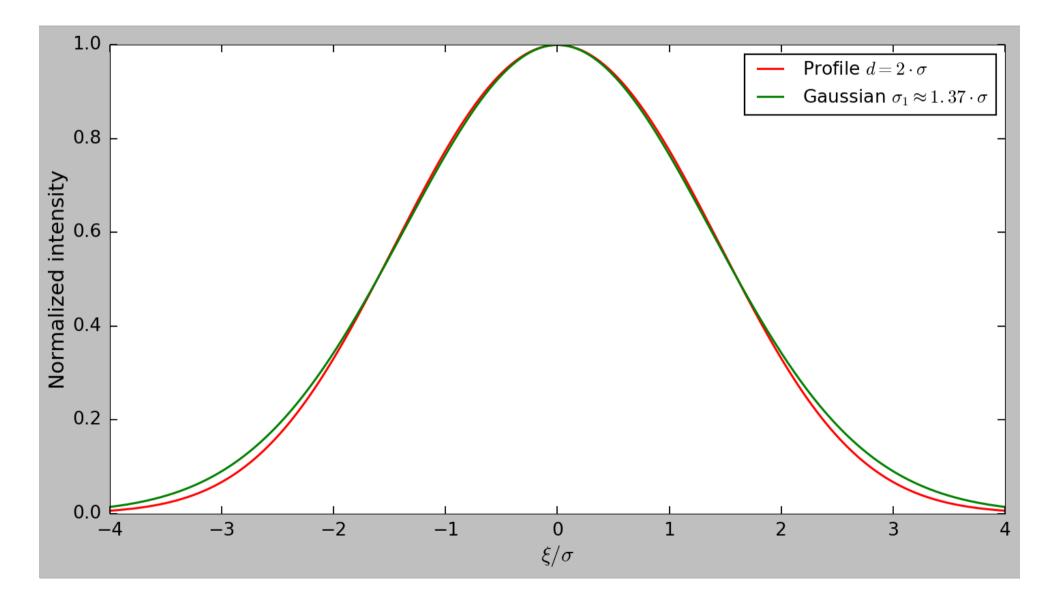
Here a first estimation of the distortions is given using simplifying assumptions.



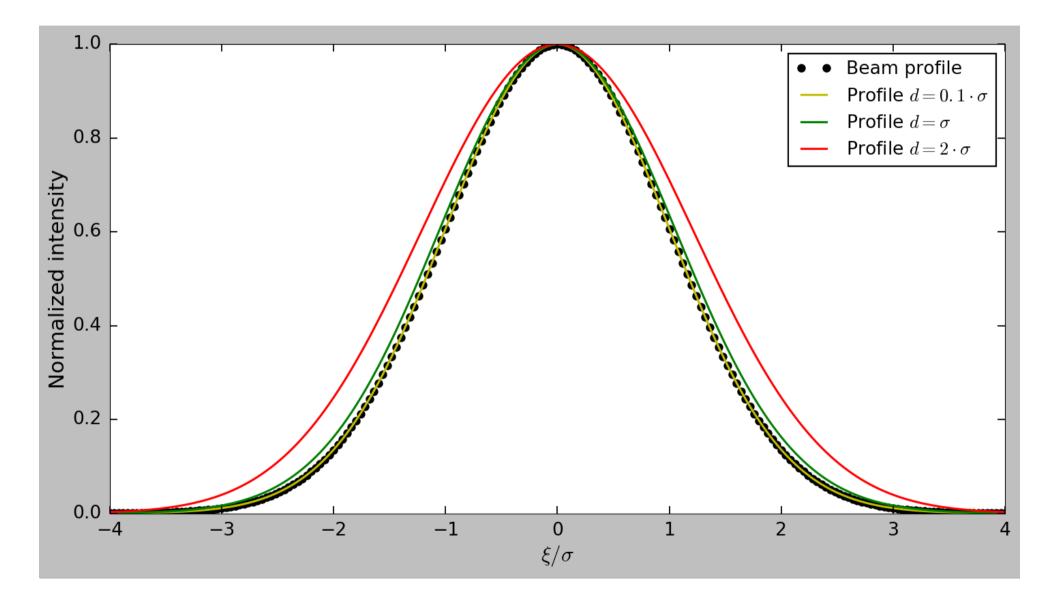
Gaussian Beam Homogeneous Gas Curtain



Gaussian Beam Homogeneous Gas Curtain



Gaussian Beam Parabolic Gas Curtain



Gaussian Beam Parabolic Gas Curtain

