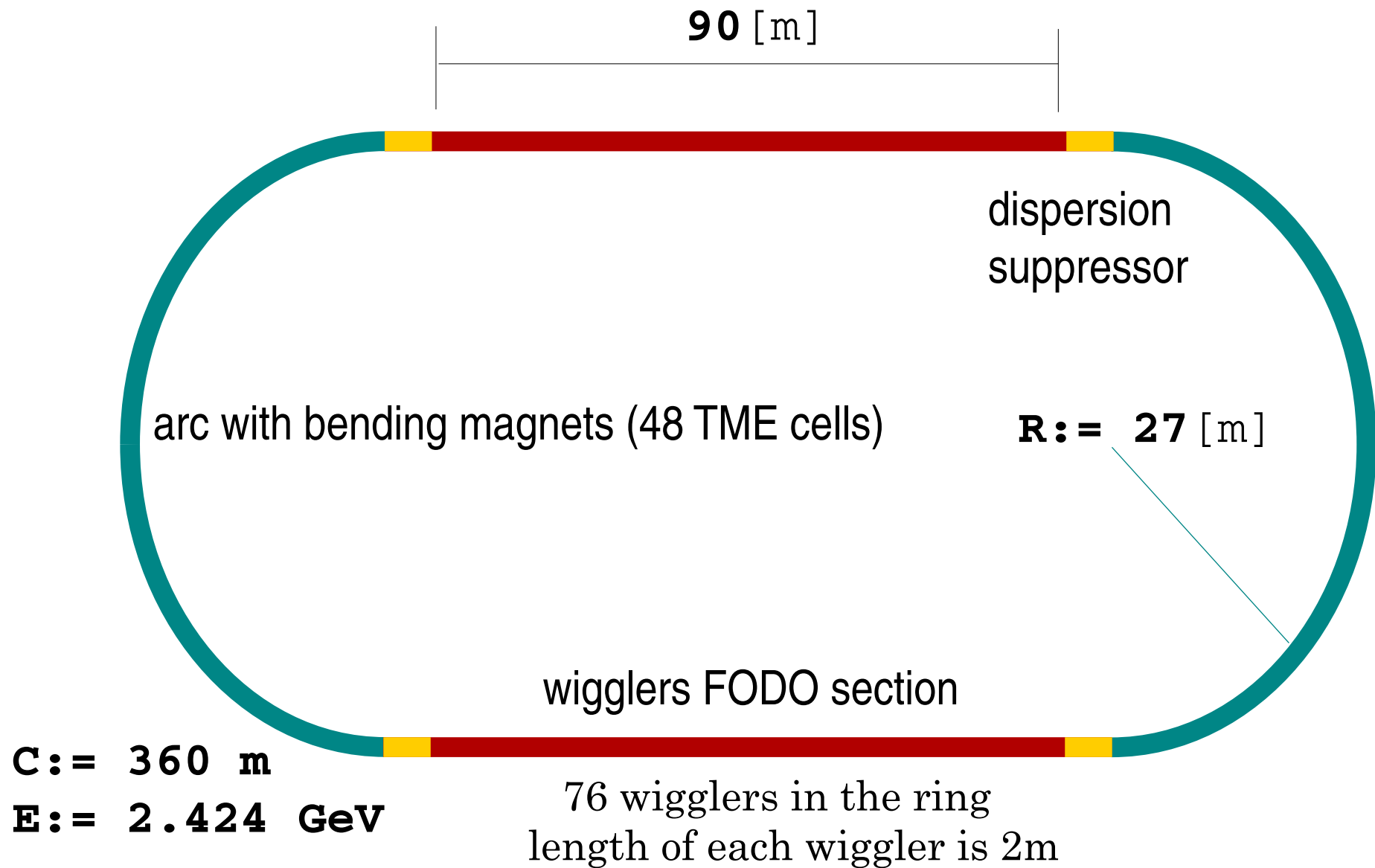


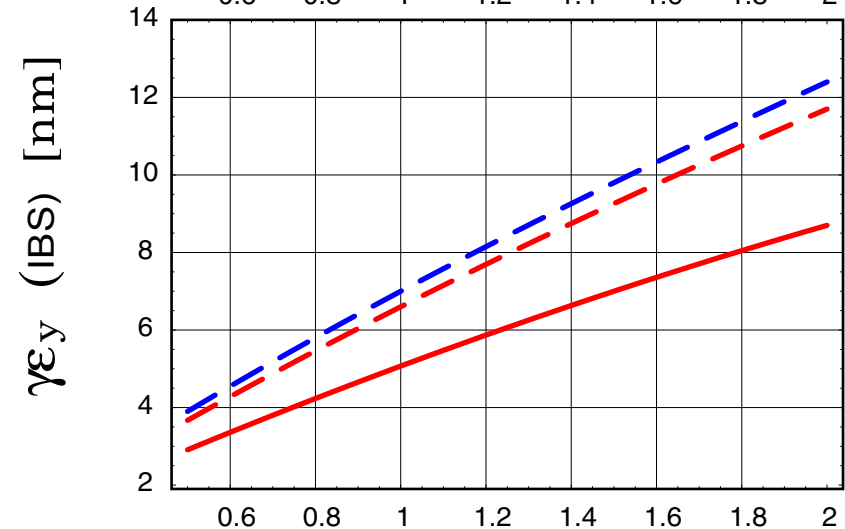
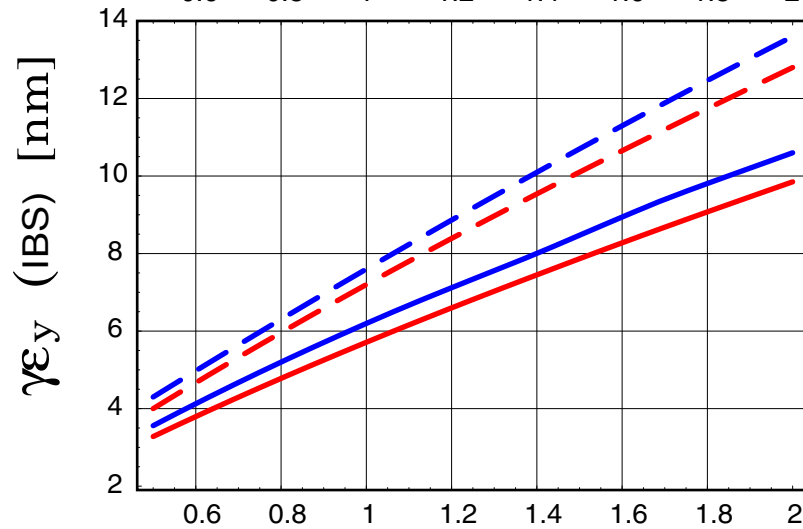
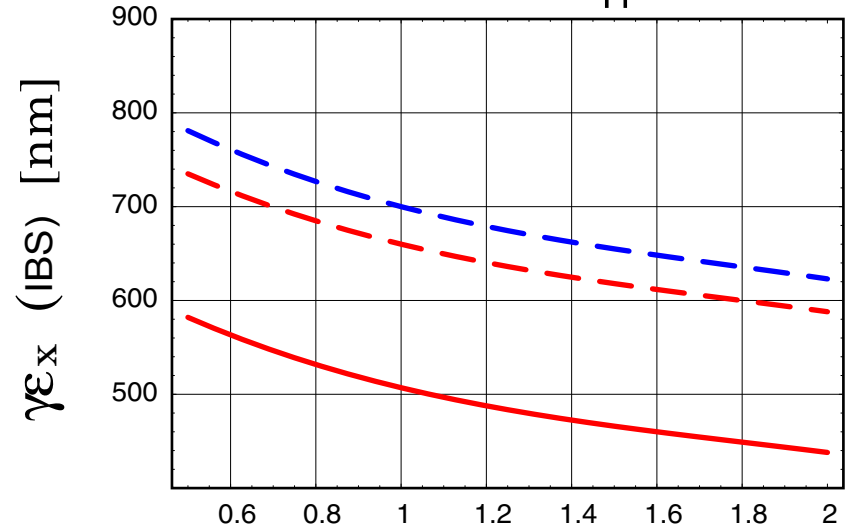
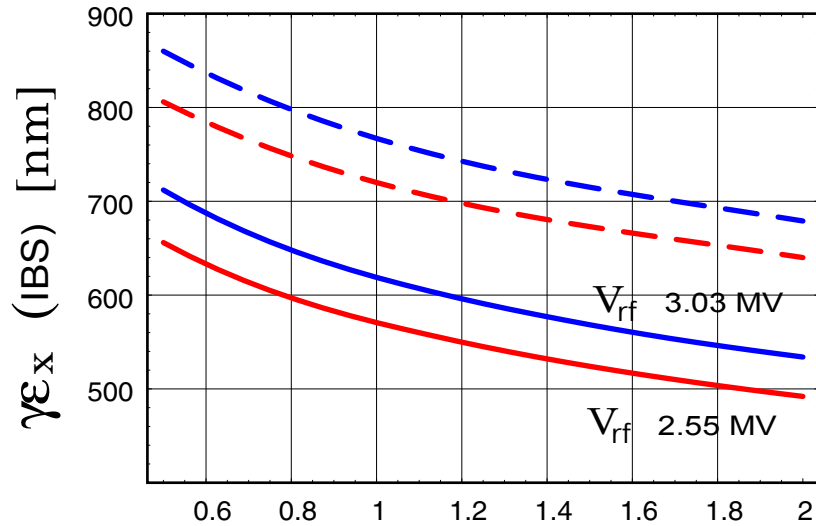
# layout of the CLIC positron damping ring



Transverse normalized emittances in CLIC\_DR with wiggler period of 10 and 20 cm (dash line).  
 Energy is 2.424 GeV, wiggler field 1.78 T

$4.2 \times 10^9$  < bunch population >  $3.0 \times 10^9$

$V_{rf}$  █ 2.55 MV  
 $V_{rf}$  █ 3.03 MV



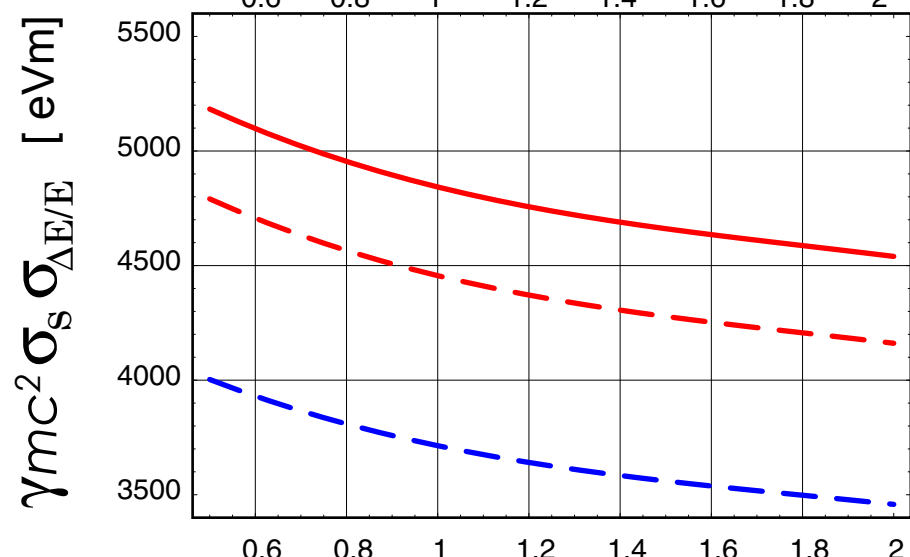
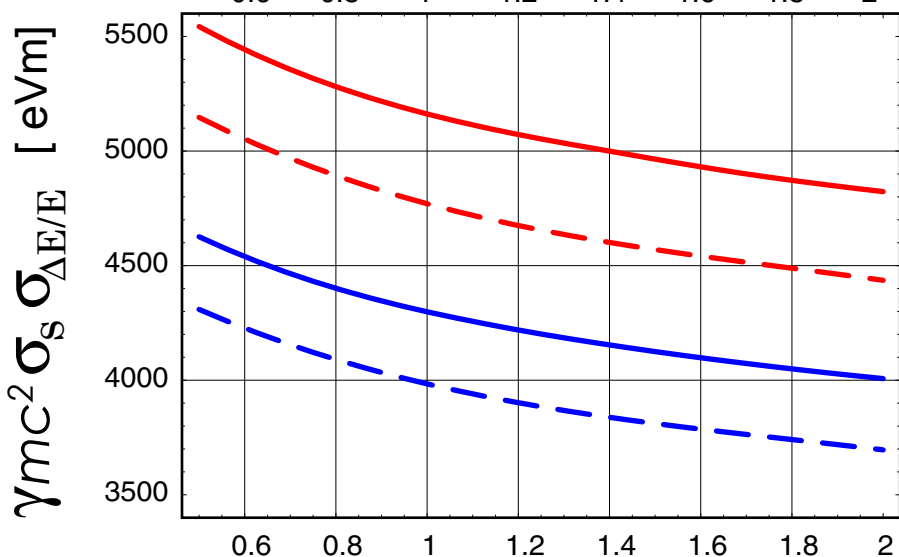
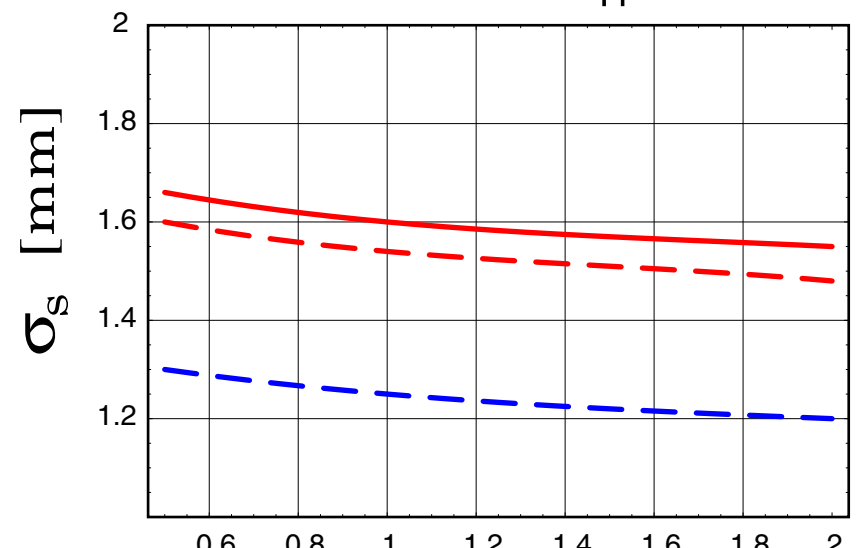
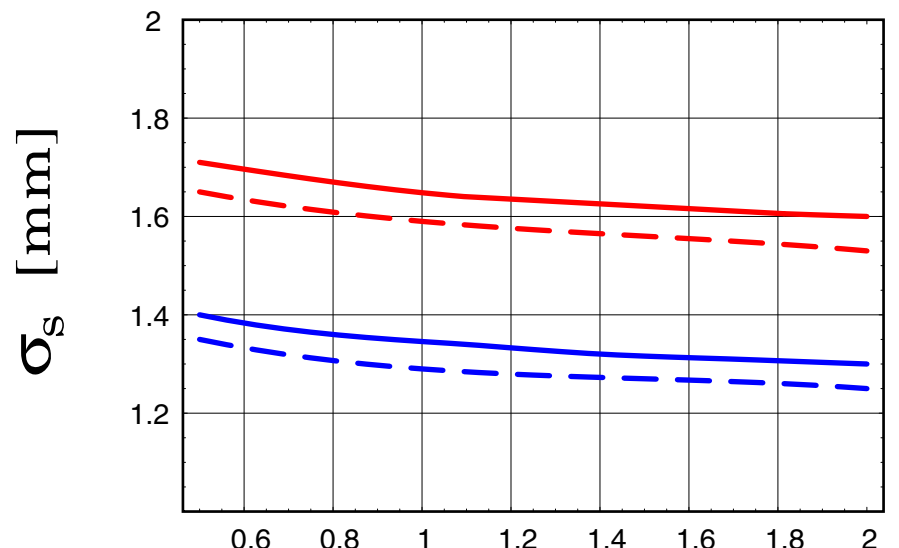
betatron coupling [%]

betatron coupling [%]

Longitudinal normalized emittance and rms bunch length in CLIC\_DR  
 with wiggler period of 10 and 20 cm (dash line). Energy is 2.424 GeV  
 wiggler field 1.78 T

$4.2 \times 10^9$  < bunch population >  $3.0 \times 10^9$

$V_{\text{rf}}$  █ 2.55 MV  
 $V_{\text{rf}}$  █ 3.03 MV



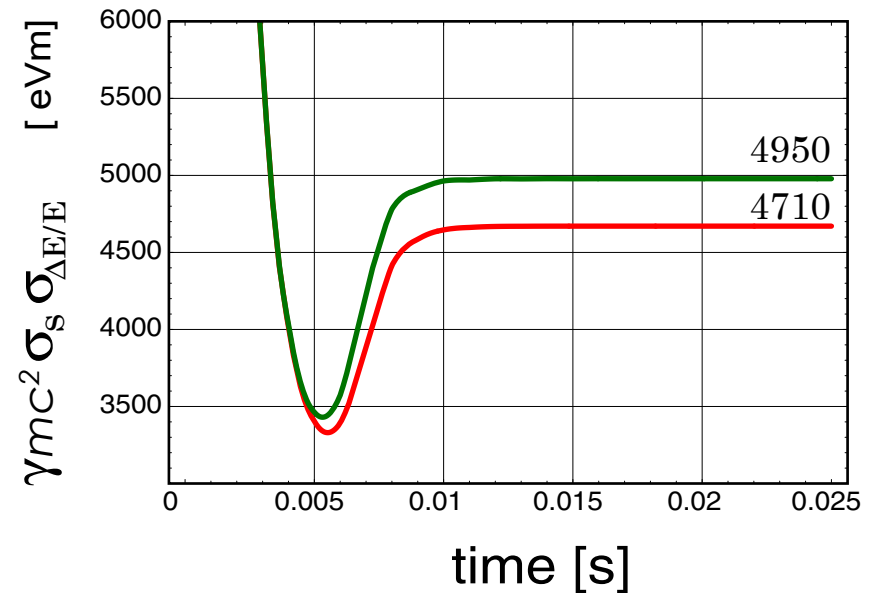
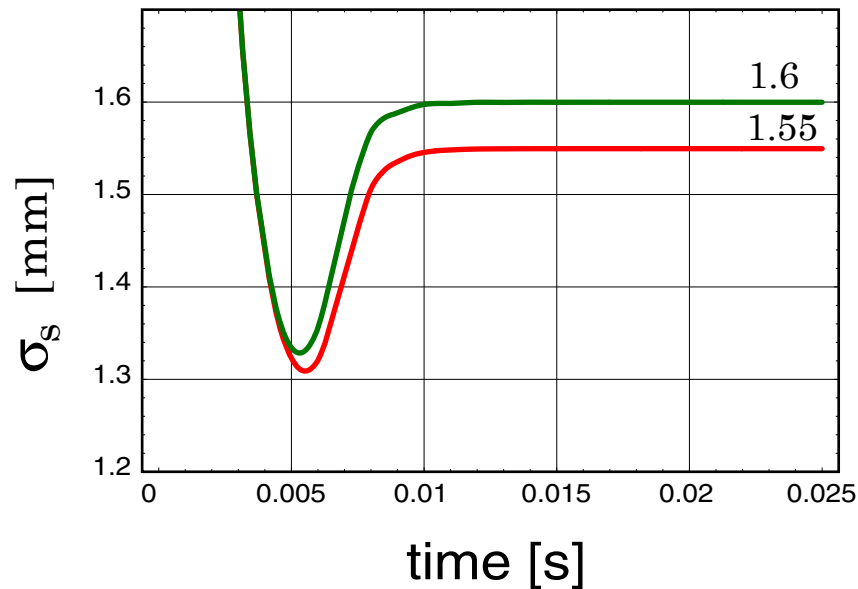
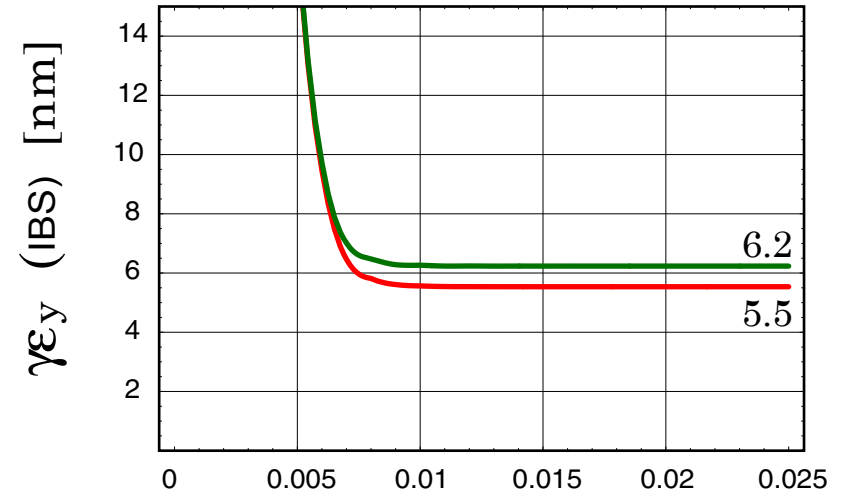
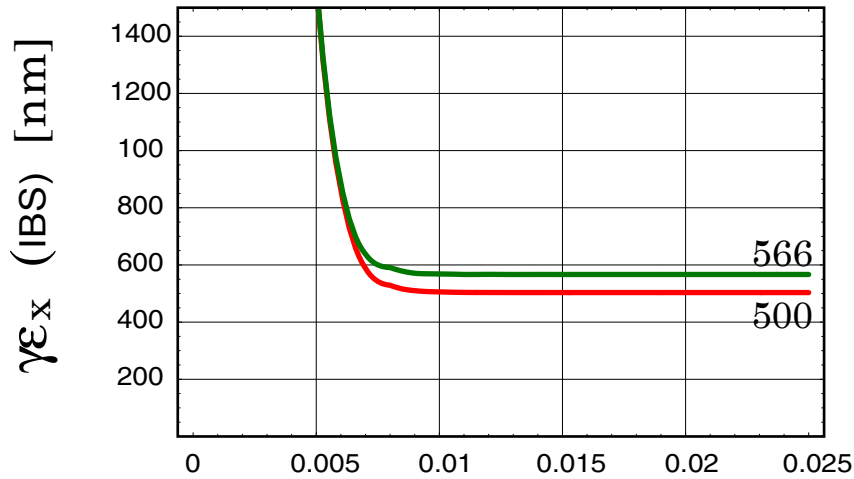
betatron coupling [%]

betatron coupling [%]

Emittance & bunch length evolution in CLIC\_DR with wiggler period of 10.  
 Energy is 2.424 GeV, betatron coupling 1.1 %, RF volage 2.6 MV,  
 wiggler field 1.78 T.

red line is bunch population of  $3.0 \times 10^9$

green line is bunch population of  $4.2 \times 10^9$



Emittance & bunch length evolution in CLIC\_DR with wiggler period of 10 cm at wiggler field of 0.5, 1.0, 1.5 and 2.0 T. Energy is 2.424 GeV, betatron coupling 1.1 %, bunch population  $4.2 \times 10^9$ , RF phase is constant.

