Relative Errors in the RMS Betatron Oscillations RMS\_beta\_xRelEr90 RMS\_beta\_xRelEr0 No Chicane 10<sup>-3</sup> -RMS\_beta\_x Relative Errors  $10^{-4}$ 10-2  $10^{-5}$  $10^{-4}$  $10^{-3}$  $10^{-1}$  $k_wig [m^{-1}]$