BC parameter sensitivity + µ-bunch (in)stability

BC1+3rd & BC2

SC effects after last BC

dog & BC1+3rd & BC2

dog+3rd & BC1+3rd & BC2

BC0+3rd & BC1+3rd & BC2

sign of new (induced) modulation

75A-Gun, BC0+3rd & BC1+3rd & BC2



BC1+3rd & BC2







example: SC effects after last BC

European XFEL:



negative chirp compensated by LINAC wakes positive chirp induced by space charge !



BC1+3rd & BC2







75A-Gun, BC1+3rd & BC2



























dog+3rd & BC1+3rd & BC2







BC0+3rd & BC1+3rd & BC2









new (induced) modulation with opposite sign of original modulation





75A-Gun, BC0+3rd & BC1+3rd & BC2









