Design 1

b>1

Problem: because of the beam being flipped at the focus, the beam remains chirped at the output.

b<1

Design 2

b>1

The chirp is now correctly compensated, but the beam is focus vertically

b>1

Design 3

b>1

An additional pair of focusing mirror compensates for the single beam flip, allowing to compensate for the chirp while keeping the beam size at the output.

b<1

b>1

b<1

b>1

b>1
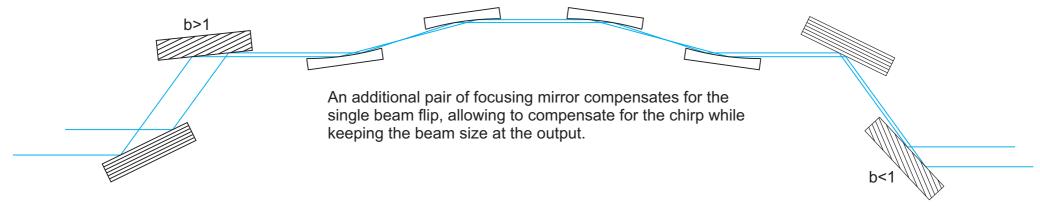
pitch < 0
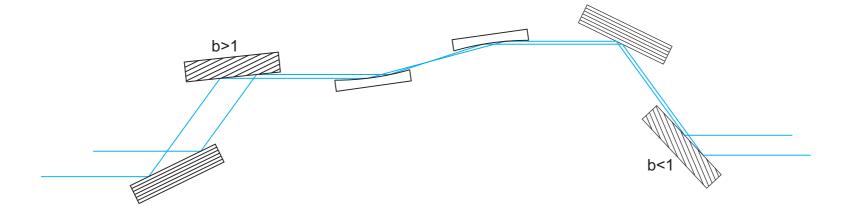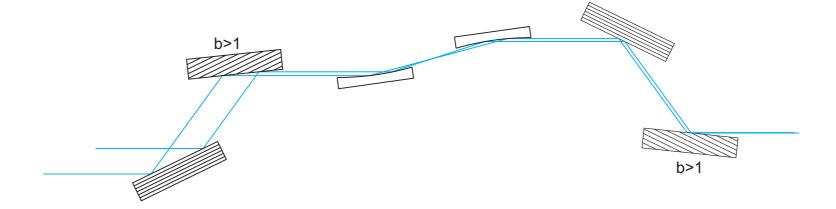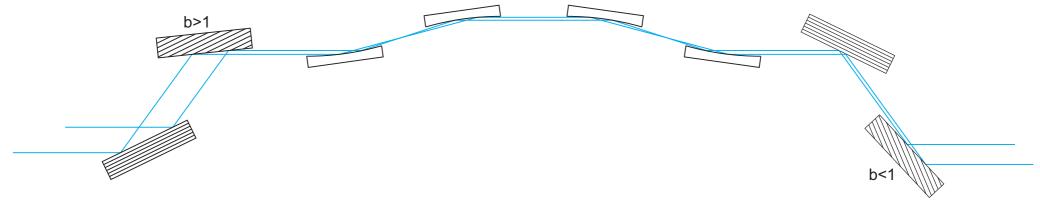positionRoll = π

pitch > 0
positionRoll = π

pitch > 0
positionRoll = 0

pitch < 0
positionRoll = 0