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## Effects of elements misalignment on Accelerator Performance

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Misalignments of accelerator components can affect the beam transport through several processes, and lead to emittance growth, beam losses, and beam break-up. In future particle accelerators like CLIC, where the beam size is of a nanometer scale, the effect of the smallest imperfection can be the most dangerous and harm the machine operability. In this talk the main mechanisms for emittance growth and beam instability will be discussed, and some of the most advanced mitigation techniques will be explained.

### Summary

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**Session Classification:** General introduction to CLIC and PACMAN