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Collider challenges

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Current and future circular colliders aim at breaking the current luminosity records. This requires the use of elaborated lattice designs, combining innovative accelerator concepts with pushed IR optics. In addition, the particle detectors in the forward scattering region require a very precise control and knowledge of the optics along the interaction region. All these requirements set new challenges in the optics measurements and adjustments.

New or upgraded techniques possibly in combination with higher resolution instrumentation should be envisaged for the current and future colliders.

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Session Classification: Motivation for HE machines, colliders, HI machines, light sources and damping rings