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Review of interaction regions for future crab waist colliders. (15' + 5')

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Invention of the crab waist collision scheme gave birth to several projects of future colliders with luminosity by one or two orders of magnitude higher than in previous particle factories. The biggest influence in luminosity gain comes from extremely small vertical beta function, which enhances nonlinear chromaticity of the interaction region lattice. Therefore, all the projects have to compensate it. We will review three projects for completely different energies of the future colliders with crab waist collision scheme: FCC-ee (CERN), tau-charm (Novosibirsk) and super-phi (Novosibirsk), explain the common problems of the interaction region nonlinear properties and solutions we used to control them.

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