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Integrated simulations for calculation of tolerances

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This presentation provides a concise overview of recent integrated simulation studies conducted for the FCC-ee accelerator. It covers key performance aspects, including the impact of varying sextupole strengths during commissioning on particle dynamics, degradation effects due to imperfections in the $-I$ transform, and sensitivity to different ground motion scenarios. Additional topics include injection efficiency and the evolution of injected emittance, field error tolerances at both injection and collision stages, and the cumulative performance degradation resulting from the interplay of these effects.

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