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Limitation on the luminosity of e+e- storage rings due to beamstrahlung.

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Particle loss due to the emission of single energetic beamstrahlung photons is shown to impose a fundamental limit on storage ring luminosities at energies more than $2E^{1/4}$ GeV for head-on collisions and $2E^{1/4}$ GeV for crab-waist collisions. Above these thresholds the suppression factor due to beamstrahlung scales as $1/E^{4/3}$ and for a fixed power of synchrotron radiation $L \propto R/E^{13/3}$. For $2E > 150$ GeV both collisions schemes have a similar limits on the luminosity. The attainable luminosities at the Higgs factory energy $2E=240$ GeV at storage rings and linear colliders (LC) are comparable and LC is preferable for higher energy.

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