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## Luminosity with $e^+e^- \rightarrow \gamma\gamma$ : theory perspective

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The unprecedented precision goal of the future FCC-ee machine in key measurements in the Standard Model and beyond will require that the accelerator luminosity is known with extremely high accuracy, at the  $10^{-4}$  level and even better. In this context, QED processes (and their accurate theoretical prediction) play the role of precise luminosity monitoring processes: together with the standard Bhabha scattering, used in the past at LEP and flavour factories, it is interesting and worthwhile to consider also the  $e^+e^- \rightarrow \gamma\gamma$  process, which, despite a lower statistics than Bhabha, can be predicted with very high accuracy. In this presentation, the current status of  $e^+e^- \rightarrow \gamma\gamma$  calculations and Monte Carlo tools will be reviewed and the perspective for future theory improvements will be traced and discussed in detail.

**Authors:** CARLONI CALAME, Carlo Michel (INFN, Pavia (IT)); CHIESA, Mauro (University of Würzburg); MONTAGNA, Guido (University of Pavia e INFN, Pavia (IT)); NICROSINI, Oreste (INFN, Sezione di Pavia); PICCININI, Fulvio (Università and INFN (IT))

**Presenter:** CARLONI CALAME, Carlo Michel (INFN, Pavia (IT))

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