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ECAL device in view of the ILC staging proposal

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In view of the LHC results, in order to mitigate the cost of an ILC or at least to spread it in time, the prospect of a staged development for ILC takes consistence. An initial phase at an energy of about 250 GeV is strongly considered with a hope to go to 380 GeV or even 500. A rather long stay at low energy suggests to revisit the detector design for an optimisation which weighs more this phase. If the particle flow approach keeps all its virtues the balance between particle separation and intrinsic resolution may shift. The reduction of the particle and jet energies may also suggest reducing field and size. The impact of these considerations on the design of the ILD calorimeter and specially the electromagnetic part will be examined. Proposal of timing measurement will also be discussed.

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