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The Inert Doublet Model at current and future colliders

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The Inert Doublet Model is an intriguing extension of the SM scalar sector. It is a two Higgs doublet model with a discrete Z_2 symmetry, that renders the lightest particle from the second doublet stable and therefore provides a good dark matter candidate. I will discuss current constraints on the model as well as discovery prospects at current and future colliders, with a special emphasis on future e^+e^- machines with center-of-mass energies up to 3 TeV (CLIC), for a set of proposed benchmark points. For these, large parts of parameter space promise to be testable with high significances.

Content of the contribution

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