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The use of beam polarization in the search for dark matter at the ILC

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The International Linear Collider has the opportunity to discover dark matter particles in the monophoton signature $e^+e^- \rightarrow \gamma +(\text{missing})$. The sensitivity to new physics in this channel depends crucially on the control and correct estimation of backgrounds. This talk will explain how beam polarization can be used at the ILC to improve the reach of this search.

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