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QCD Axion Search with ILC Beam Facility

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One of the most promising methods to search for axions is a light-shining-through-walls (LSW) experiment. In this talk, I will discuss the possibility of performing an LSW experiment at the ILC experiment, where photon beams are generated for positron production. The photon beam is energetic and intense; the energy is of order MeV and the number of photons is about 1024 per year. Due to the high energy and intensity, this LSW experiment can reveal the parameter region of the axion unexplored by previous ground-based experiments.

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