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LSW experiments in the microwaves

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We propose a variation, based on very low energy and extremely intense photon sources, on the well established technique of Light-Shining-through-Wall (LSW) experiments for axion-like particle and dark photon searches. With radiation sources at 30 GHz, we compute that present laboratory exclusion limits on axion-like particles might be improved by at least four orders of magnitude, for masses $m_a < 0.01$ meV. This could motivate research and development programs on dedicated single-photon sub-THz detectors.

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