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Single-photon processes at e+e- colliders

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We explore scenarios where the only accessible new states at the electroweak scale consist of a pair of color-singlet electroweak particles, whose masses are degenerate at the tree level and split only by electroweak symmetry breaking at the loop level. Due to the mass-degeneracy, those lower-lying electroweak states are difficult to observe at the LHC and rather challenging to detect at the e+e− collider as well. We exploit the pair production in association with a hard photon radiation in high energy e+e− collisions.

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