# Search for the Decay J/psi -> gamma + invisible

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A search for J/psi radiative decay to weakly interacting neutral final states was performed using the CLEO-c detector at CESR. A total of 3.7 x 10^{6} tagged J/psi events was collected at the psi(2S) resonance and used to study the decay J/psi -> gamma+X, where X is a narrow state that is invisible to the detector. No significant signal was observed and upper limits on the branching fraction were set for masses m\_X up to 960 MeV/c^2. The upper limit corresponding to m\_X=0 is 4.3x 10^{-6} at the 90% confidence level. This value restricts the singlet Higgs mixing angle in some supersymmetric models that have extended Higgs sectors.

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