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Electroweak bremsstrahlung and indirect detection of Dark Matter by neutrino telescopes

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We study potential impacts of electroweak bremsstrahlung on indirect detection of supersymmetric Dark Matter by neutrino telescopes. Indeed these effects may modify observed neutrino fluxes coming from neutralino annihilations in the galactic halo or the Sun. We discuss two scenarios with high neutralino masses where such enhancements become relevant: a scenario with a pure bino neutralino and light scalar particles where large electroweak bremsstrahlung contributions arise from neutralino annihilation into two leptons and an additional gauge boson, and a scenario with a mixed neutralino where main electroweak bremsstrahlung corrections result of neutralino annihilations into three gauge bosons.

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