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Blind spots and their impact on neutralino relic abundance in the NMSSM

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Current status of spin-independent (SI) direct detection experiments may suggest that the WIMP dark matter (e.g. nuetralinos in supersymmetric models) would interact very weakly with nucleons. The so-called blind spots in parameter space correspond to the limit of vanishing SI interaction. In my talk I will discuss several classes of blind spots of NMSSM and their influence on the relic abundance of Higgsino-singlino dark matter. Correlations of the spin-independent scattering cross-section with the Higgs observables will be also discussed. Special attention will be paid to the case when the singlet-dominated scalar is lighter than the SM-like Higgs, which allow to lift up the mass of the latter.

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