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Neutralino dark matter and naturalness in the MSSM

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Most of the MSSM DM scenarios (well-tempered neutralinos, funnels, co-annihilation) imply some kind of fine-tuning. We have studied this problem in an, as much as possible, exhaustive and rigorous way. I will present a brief discussion about the statistical meaning of the fine-tuning and how it should be computed for the DM abundance, and combined with the EW fine-tuning. Our results are very robust and model-independent and favour some scenarios, like the h-funnel when the neutralino mass is not too close to m_h/2, with respect to others, such as the pure wino case.

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