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The Coannihilation Codex

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I will present a general classification of simplified models of dark matter coannihilation and discuss the main phenomenological features of these models. The fully general treatment of coannihilation allows for new exotic mediators to the dark sector that should be tackled with non-standard collider search strategies. In this talk, general classes of LHC signatures describing the full set of coannihilation models will be introduced. Several novel signatures that are not covered in current LHC searches will be emphasized. The impact of allowing for coannihilation partners with a general set of SM charges on relic density predictions, going way beyond the simple WIMP intuition, will be signalized.

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