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Gravitino dark Matter Candidate and Big Bang Nucleosynthesis

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In the context of supersymmetric models with R-parity conservation, the gravitino is a possible candidate for dark matter when it is the lightest supersymmetric particle. The gravitino can be produced during reheating after inflation or from the decay of the next to lightest supersymmetric particle (NLSP). The unstable particle can be long-lived and decay during big bang nucleosynthesis. The decay alters the production of light elements and could be a solution to the possible "lithium problems". I will present some results related to the lithium problems and gravitino relic density as dark matter.

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