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Gravitational portals during reheating

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Inflation is now very well motivated because it can solve many issues of the Big Bang scenario. Specific models of inflation can be tested by observations, most notably by the CMB anisotropy power spectrum. I will present results on (dark) matter production in the late time evolution of this inflationary field usually called “reheating”, and the challenges to probe these mechanisms. Especially I will present what we call gravitational portals, as a minimal scenario to produce perturbatively particles during this phase of the early Universe.

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