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# Gizem Sengor (Syracuse): An effective field theory approach to preheating

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reheating refers to the stage at the end of inflation where the inflation transfers its energy to other fields through resonance, as opposed to perturbative decays. We will demonstrate how these mechanisms can be captured in an EFT setting for the perturbations. While the form of the Lagrangian will resemble that of the EFT of quasi single field inflation, the behavior of the EFT functions during preheating are of course different then during inflation. Understanding the symmetries and scales of the preheating background and how they work into the EFT functions will lead us to ladder up the scales of certain interactions during preheating with respect to each other. This talk is based on work [hep-th]1701.01455.

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