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Primordial non-Gaussianities as a particle collider

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The energy scale of inflation could be as high as 1014 GeV, hence it is a phenomenon at the highest energy scale we may explore. Primordial non-Gaussianities can then be thought of as a 1014 GeV collider (dubbed the cosmological collider), which may be used to probe new particles at the inflationary scale. In this talk I will review recent progress in the cosmological collider program including our own works. In particular I will discuss how to read of the mass and spin of new particles from non-Gaussianities.

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