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Searching for galaxy protoclusters in Euclid quick release

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The largest structures in the Universe to fully overcome cosmic expansion by their gravitational attraction are galaxy clusters. When they are still in their formation phase, they are called galaxy protoclusters and are expected to play an important role in star formation, giving rise to an epoch called the Cosmic Noon (cosmological redshift $z \sim 2 - 3$). My goal is to find precise characteristics of the gas in galaxy protoclusters. To do so, I investigated Euclid Quick Release and found promising candidates in fields where the Planck satellite had previously detected a high star formation rate at Cosmic Noon redshift.

Astrophysics Field

protoclusters

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