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Study of the blending impact on galaxy clusters with DC2

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Due to the greater depth of the survey and blurring by the atmosphere, over a half of the galaxies observed by the LSST will appear to overlap on the line of sight. This effect, called blending, perturbs detections and measurements of shapes and fluxes of galaxies, and is expected to be even stronger in high-density regions such as galaxy clusters. In this talk, I will present recent work based on the DC2 image simulations that aims at evaluating the level of blending in clusters and its impact on observables such as shear profiles and inferred cluster masses.

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