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Studying resolved stellar populations: what can AO imaging do for you ?

Adaptive Optics (AO) imaging on large aperture telescopes allows us to obtain accurate stellar photometry in crowded fields. With these data we construct Color-Magnitude diagrams, from which we measure masses, age and metallicity distributions of stellar populations in galaxies. In this talk I will illustrate the potentiality of future AO imaging for the interpretation of the CMDs of stellar populations.

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