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Imaging formation process for DM profiles

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The imaging formation process for some DM profiles is carried out.

We use the analytic information given for the surface mass density in each case (some classic profiles, and some recently proposed), to obtain the geometrical and physical characterization that could provide information to identify new types of DM. The goal of this work is to understand if there are trails of the physical information encoded in the observational data related with the imaging formation process, that determine if there are new species of DM (or observational data to identify new properties for these profiles).

The calculations are analytic, and the simulations are generated with the physical information for each profile.

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