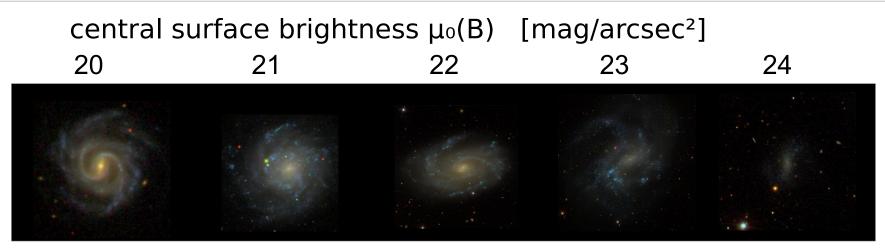


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high surface brightness (HSB)

low surface brightness (LSB)

LSB spiral galaxies present a paradox: they are blue, gas rich, and generally show late-type morphology, yet have very low star-formation rates and have diffuse stellar populations. Accounting for around 10% of log  $M \star \sim 10$  galaxies, LSB spirals are a key edge-case test of our understanding of the physics driving galaxy evolution.