

The Nature of Isolated "Elliptical" Galaxies

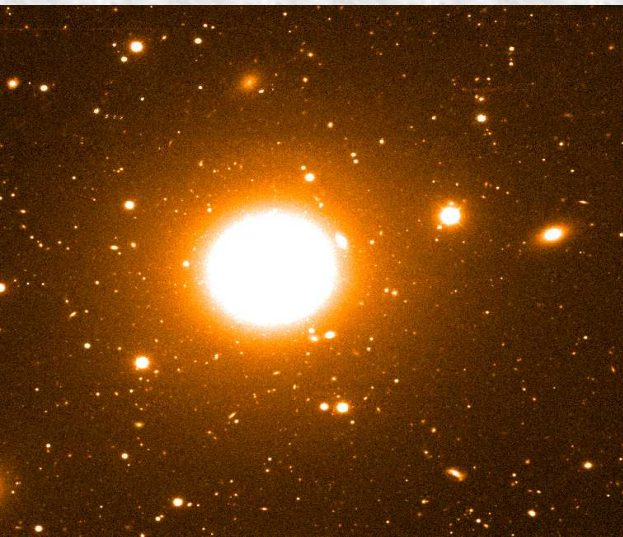
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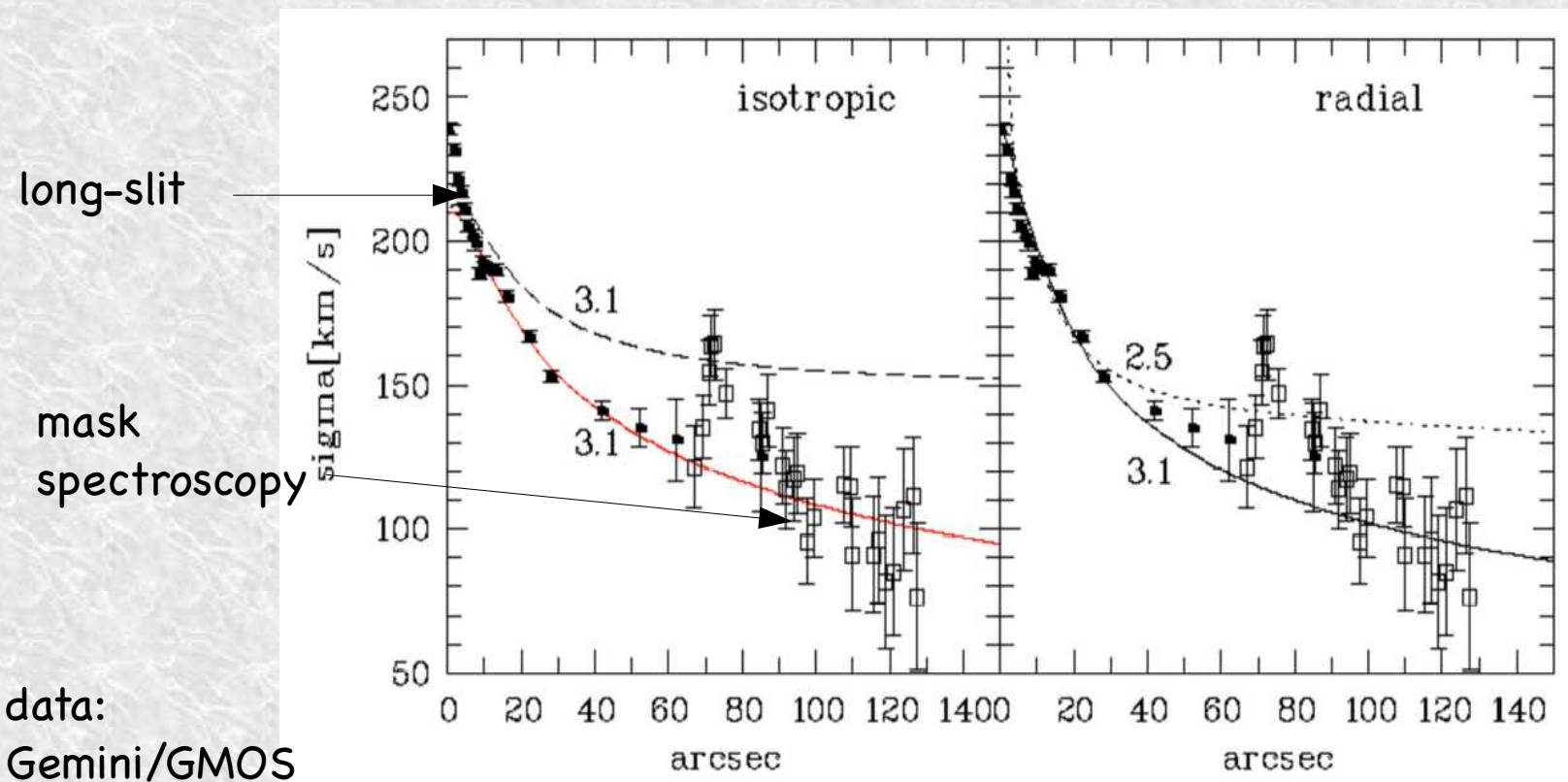
Objectives - morphological studies
globular cluster systems
dark matter

NGC 7507 - where is the dark matter?



- poor globular cluster system
- smooth morphology
- stellar M/L (R-band) indicates intermediate-age population

LOS velocity dispersion vs. radius (< 13.5 kpc)



"bump" - merger relic (Schauer et al. 2014)?

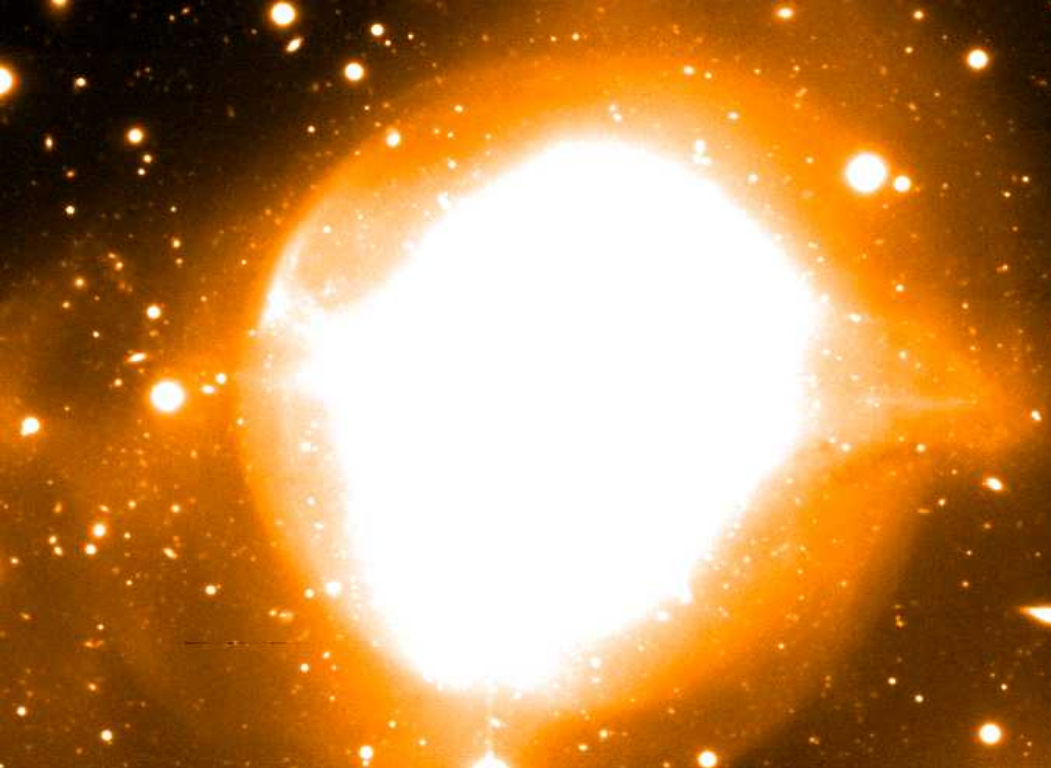
MOND

no dark matter

Caso et al. 2013

Salinas et al. 2013

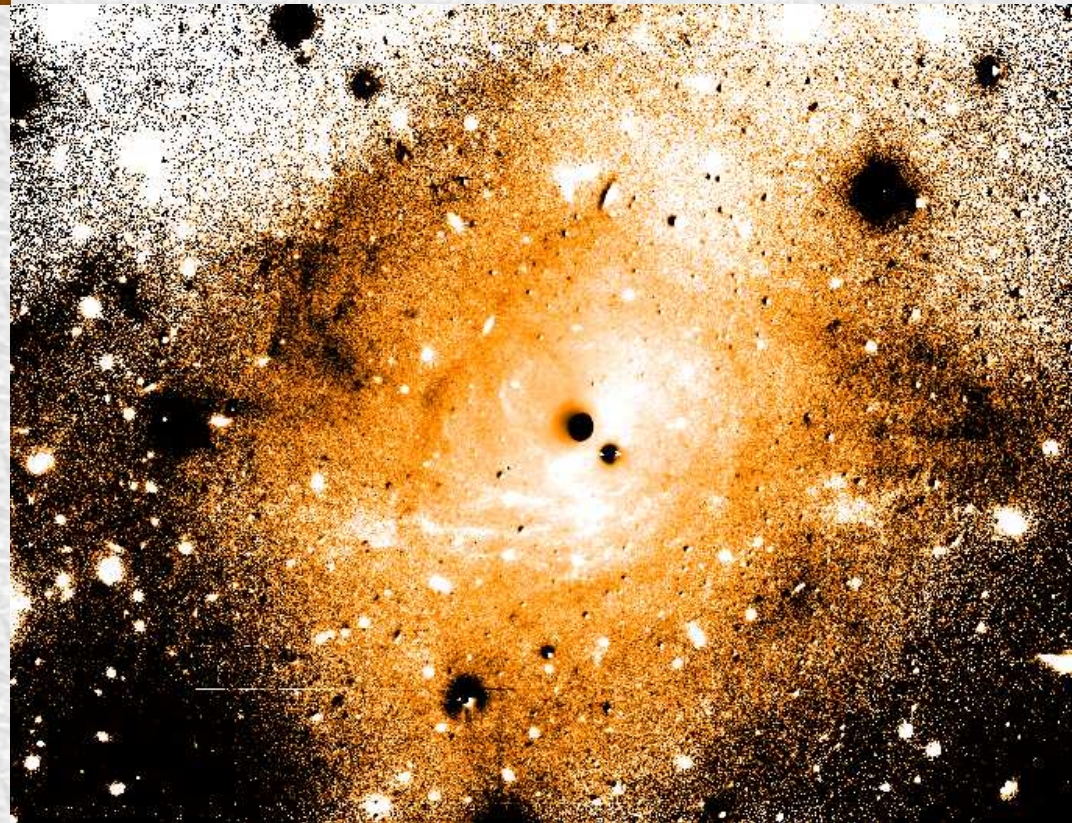
Lane et al. 2014



NGC 2685 -
a well-known shell galaxy

Colour map (g-i) reveals:
blue shells, extended dust,
isolated dust clouds,
ZAM-feature

Data: GEMINI/GMOS PI: R. Salinas



Conclusions

Among isolated “early-type” galaxies are

genuine ellipticals

- massive galaxy, old populations, old and rich globular cluster systems

pseudo-ellipticals

- elliptical morphology, intermediate-age, poor cluster system

late mergers

- shells, dust, young(?) populations

dark matter from stellar kinematics: to be investigated