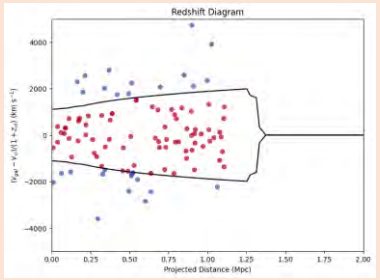
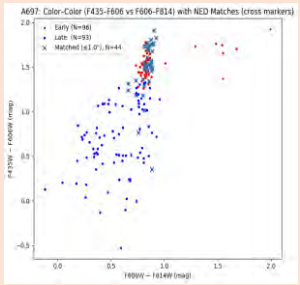
Revisiting Galaxy Cluster Abell 697:
A Testbed for Cluster Membership and Characterization

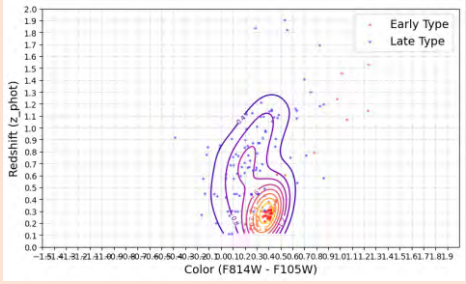
Premana W. Premadi, Andi S. Mariyam, Arti Flinkerbusch
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Indonesia

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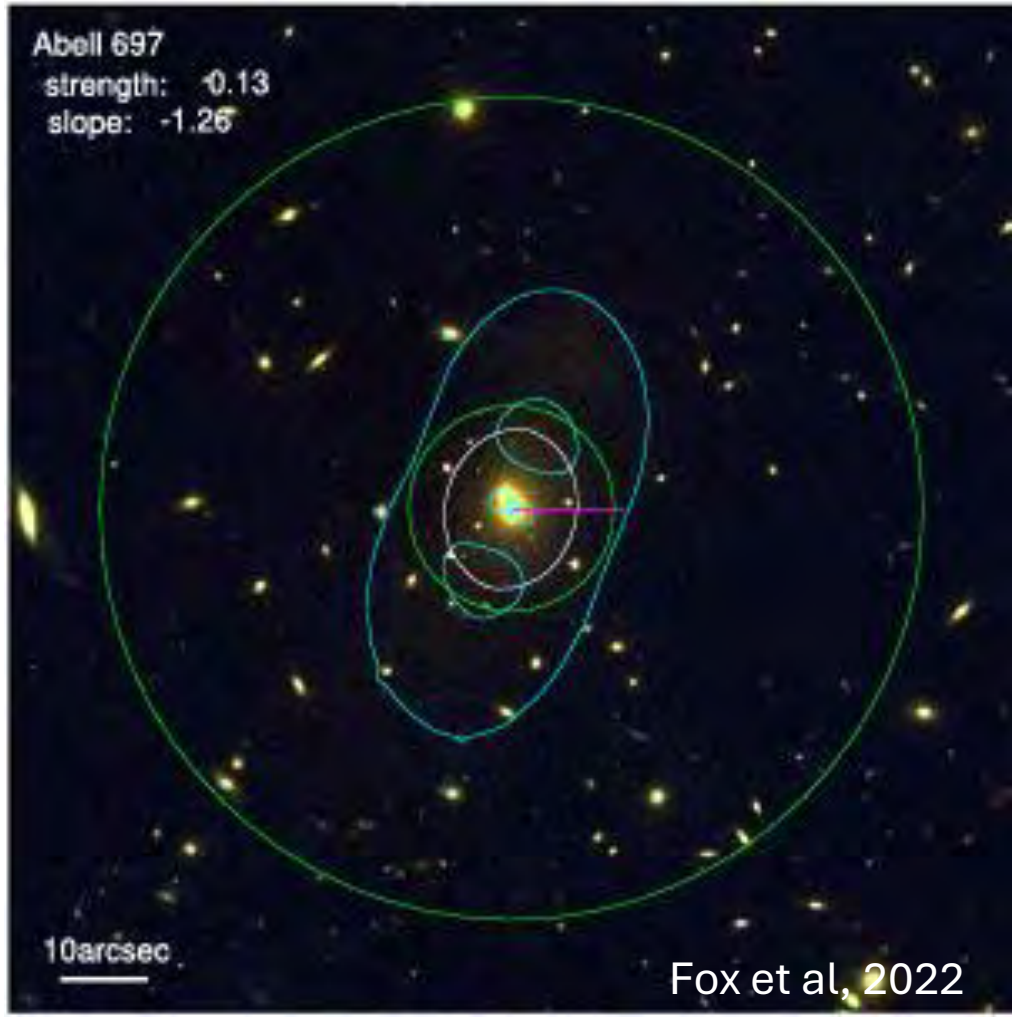
- To be really useful to probe cosmological large-scale structure, galaxy clusters' physical property needs to be properly understood
- This work studies how we decide cluster's galaxy members:
  - ✓ Bracketing galaxies' (R.A, dec, z) spatial positions
  - ✓ Bracketing their photometric property
  - ✓ Managing statistical uncertainty







How do we decide which galaxies belong to this cluster?



Discrepancies in cluster galaxy membership between cluster catalogs can be more than 30%!