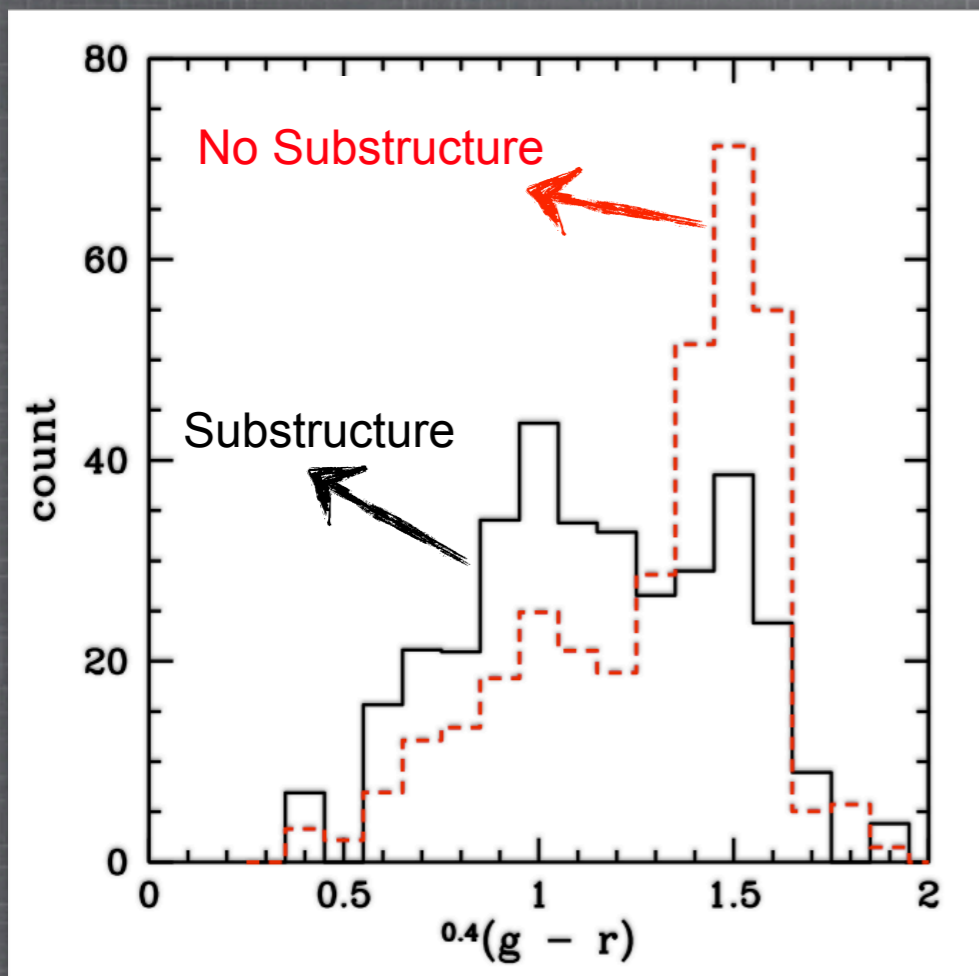


Substructure and BGGs in the GEEC Groups

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Studying dynamics in a sample of intermediate redshift groups from the GEEC sample of optically selected groups

Substructure



BGGs

- many GEEC groups have BGGs far from the group centre
- many BGGs are blue ($\sim 40\%$)
- most BGGs are not “centrally dominant” (small magnitude gap)
- Correlation between BGG properties and group dynamics - dynamically young systems lack centrally dominant red BGGs

- Groups with substructure have much higher blue fractions (65%) than groups without substructure (35%) (Hou et al., in prep). Groups with substructure have colour distributions resembling field populations.