IMPROVING GALAXY GROUP FINDERS

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Abstract / Galaxy groups are used to perform a great diversity of studies that contribute to a better understanding of the structure of the universe on a large scale and link the properties of galaxies with those of the inhabiting halos. However, the identification of galaxy systems is a challenging task and, therefore, it is necessary to improve these techniques as much as possible. With this in mind, given the large present and forthcoming galaxy catalogues, we propose, implement and evaluate an algorithm that combines the two most popular techniques to identify galaxy systems in any spectroscopic galaxy catalogue: Friend-Of-Friend and halo-based algorithms.

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