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Milestones on the understanding of structure formation

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- 1970 - Hierarchical clustering (Peebles)
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- 1978 - Filamentary structure of the Local Supercluster (Tully)

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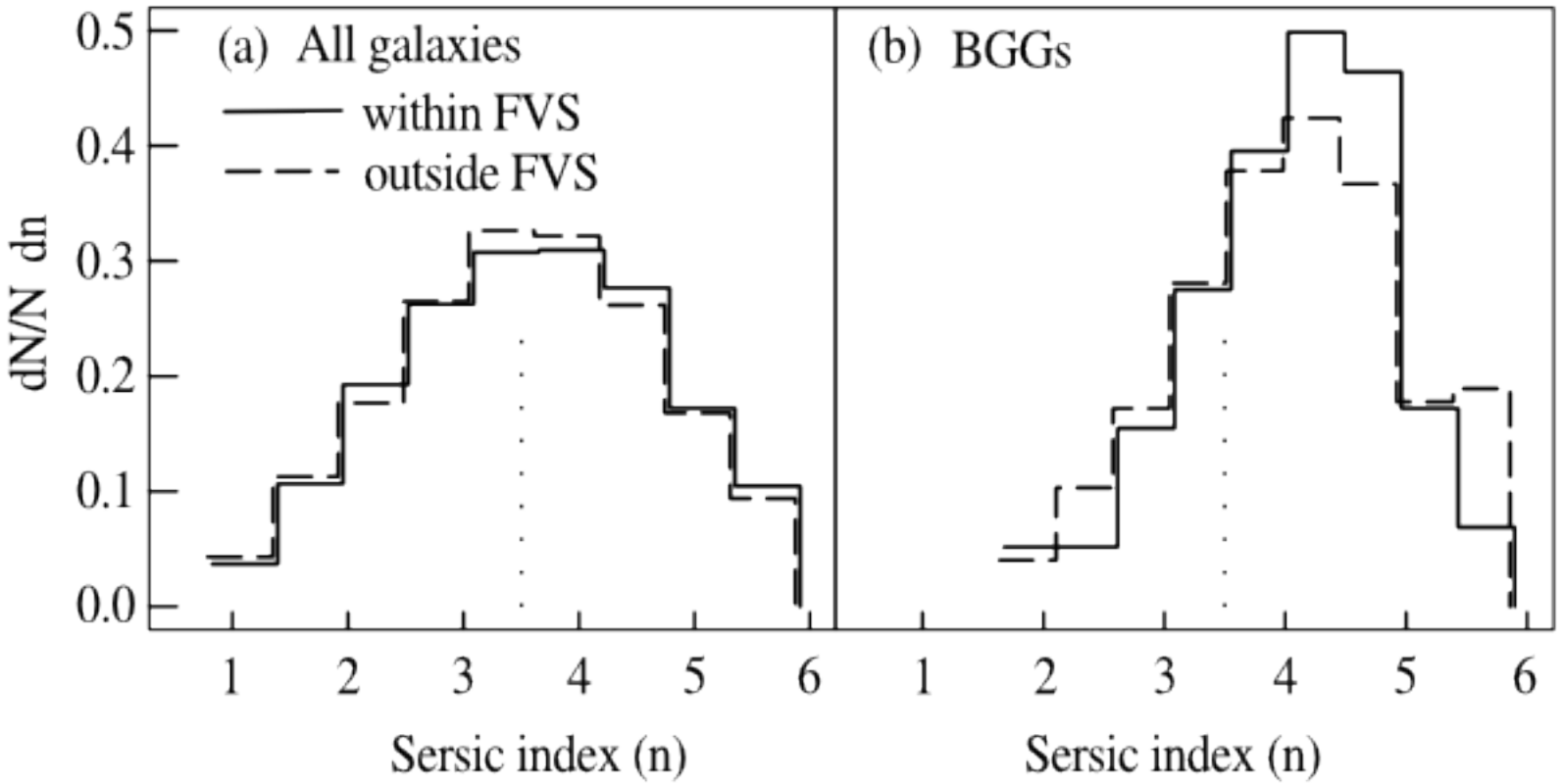

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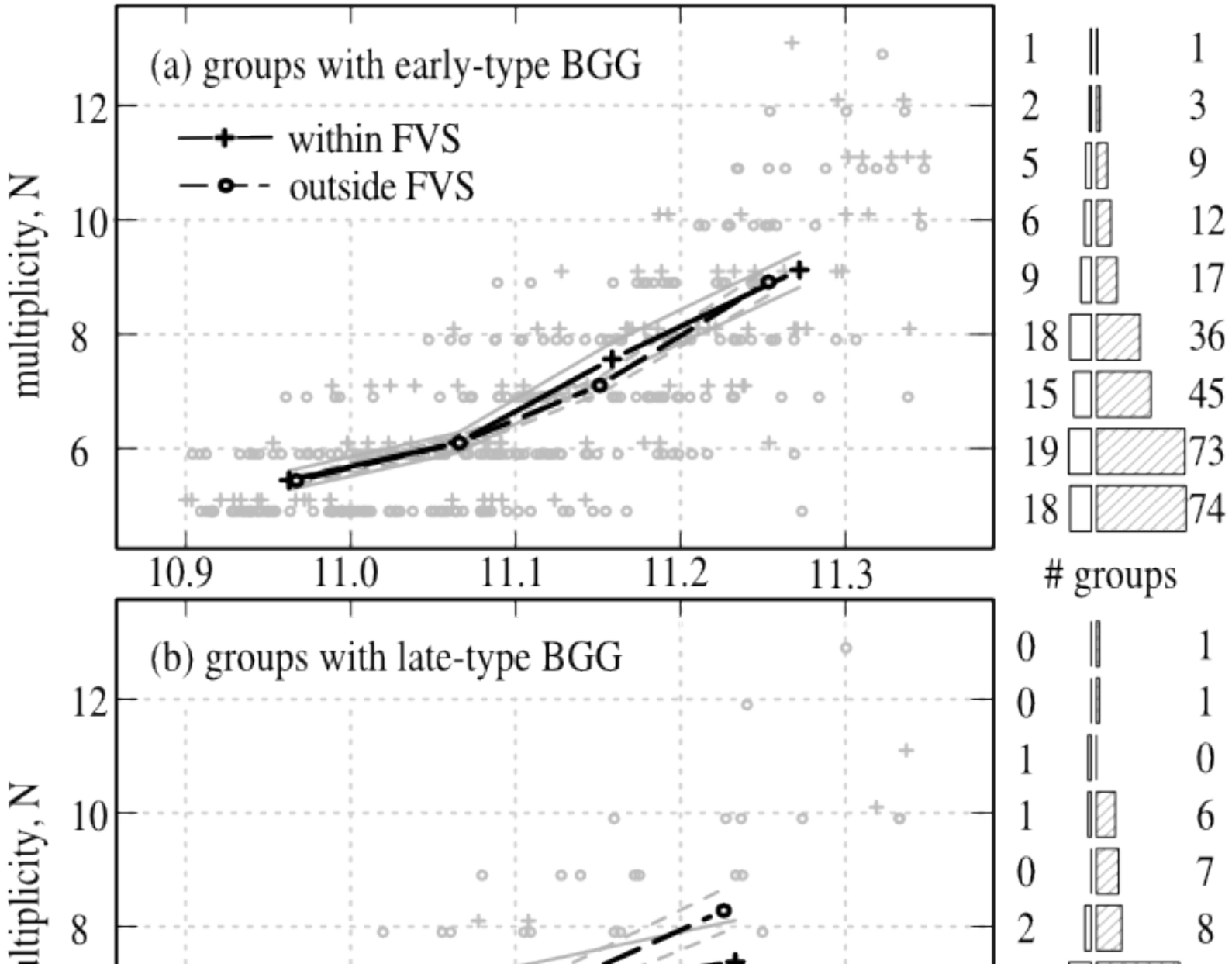

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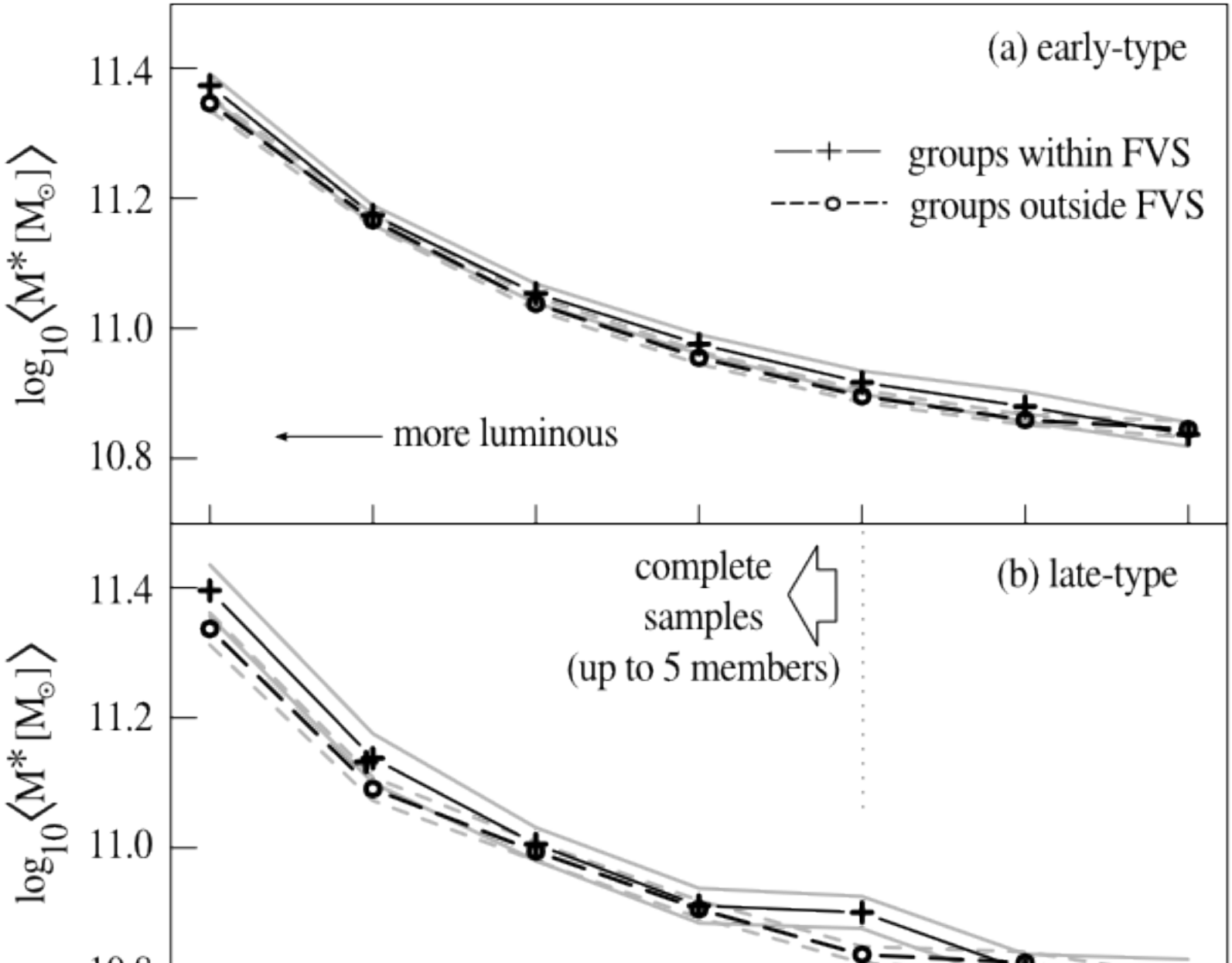

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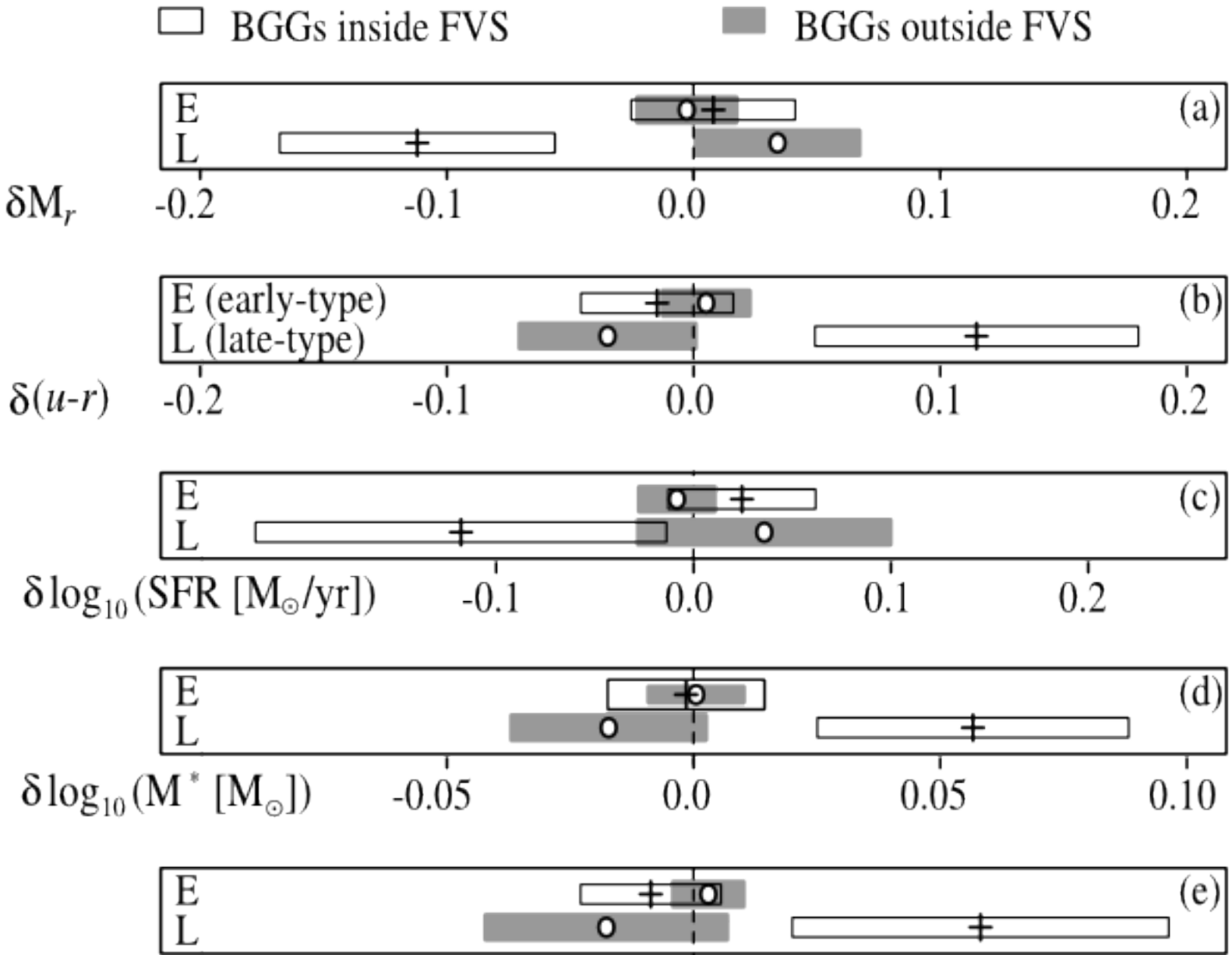

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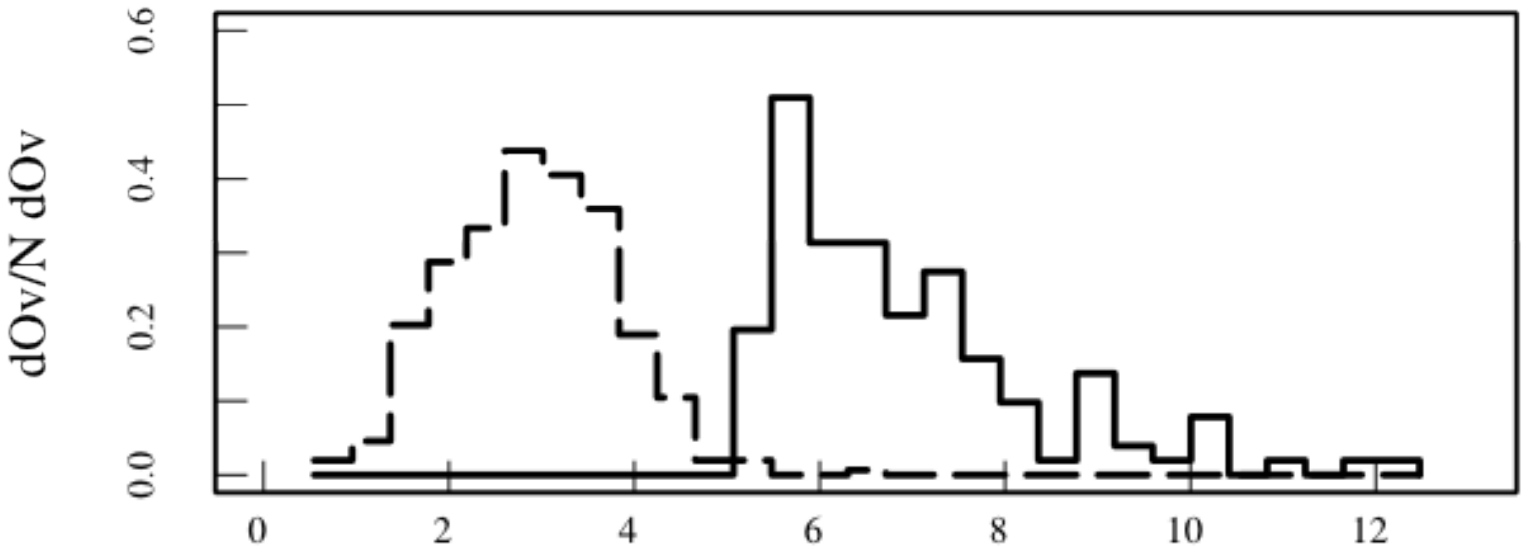

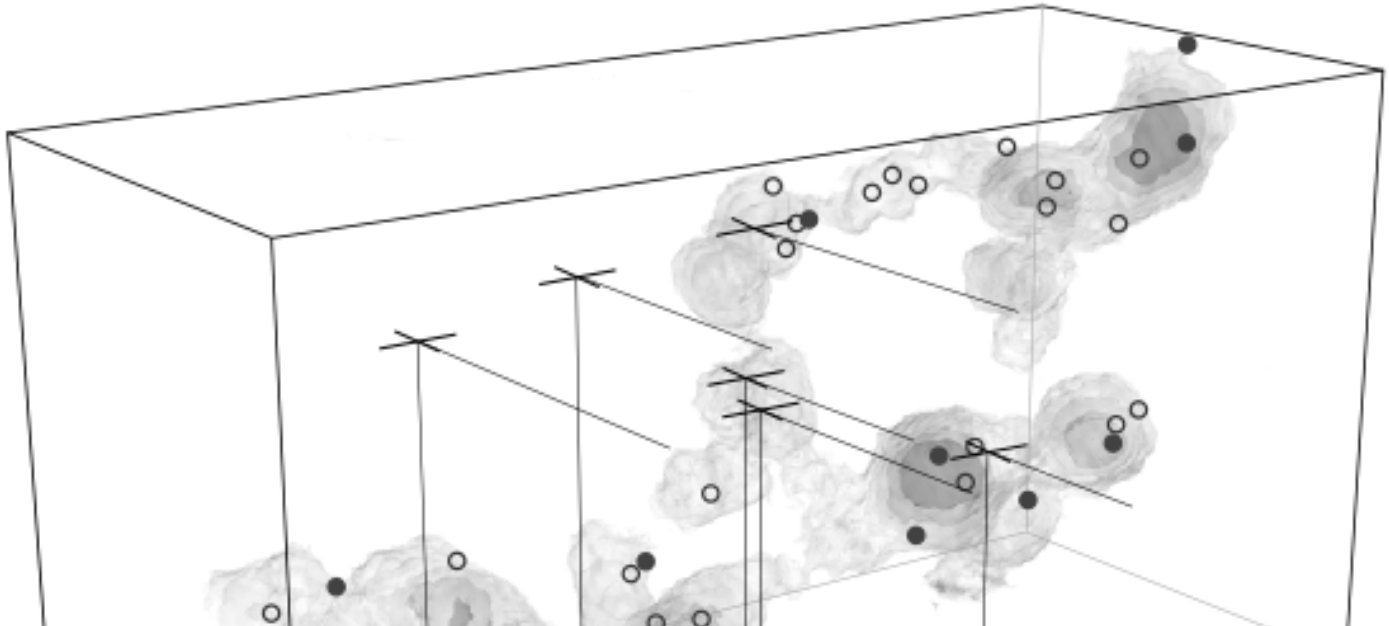

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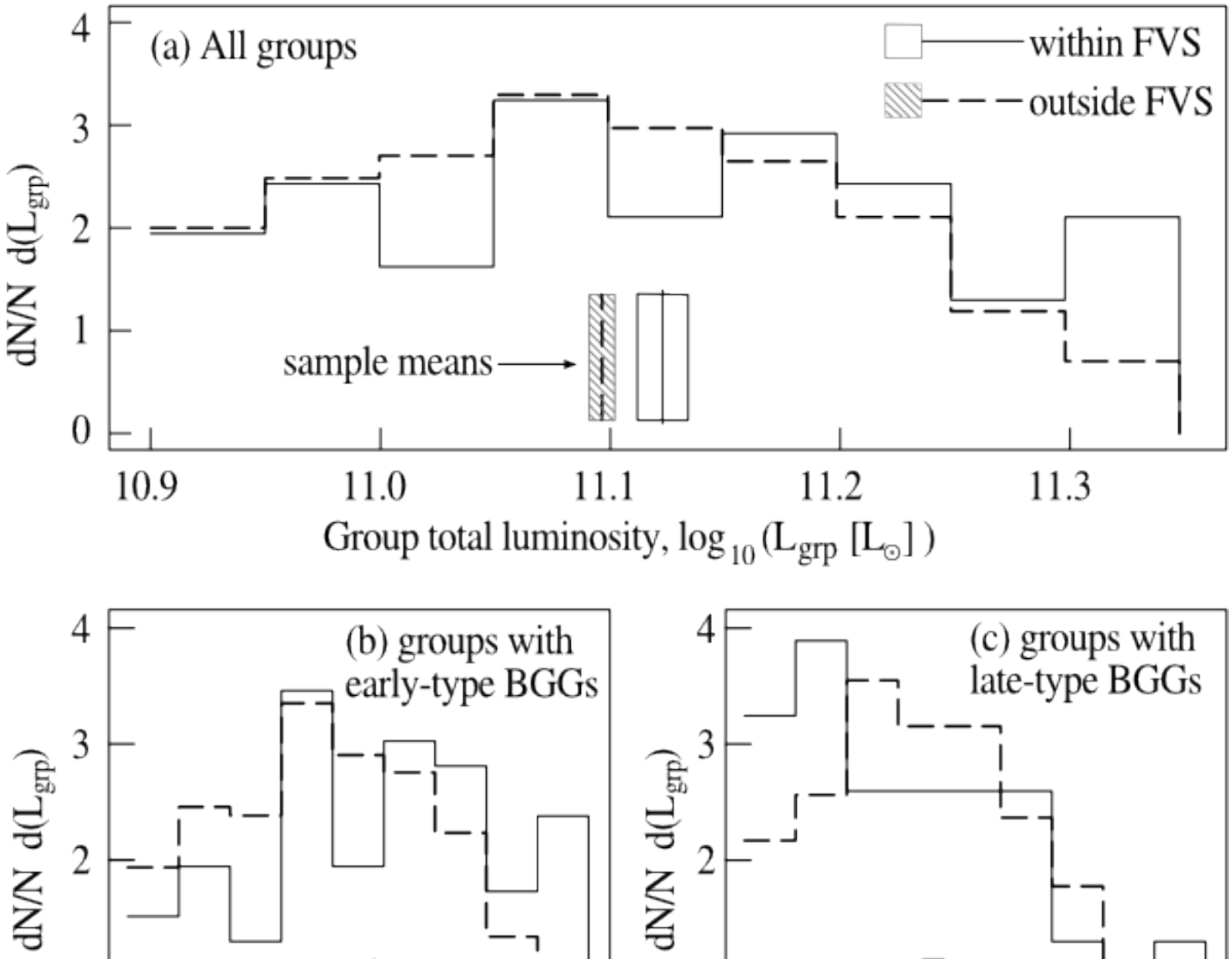

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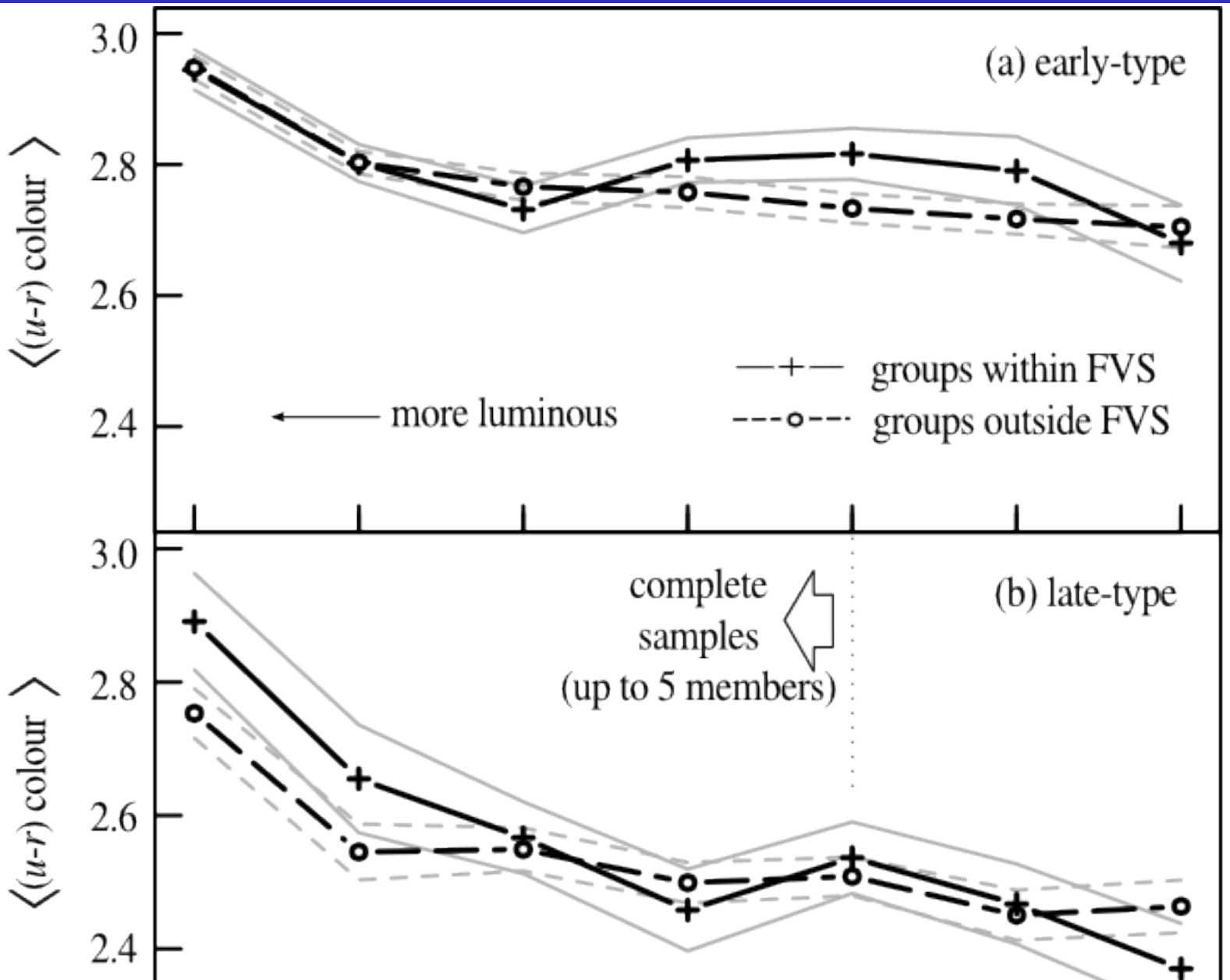

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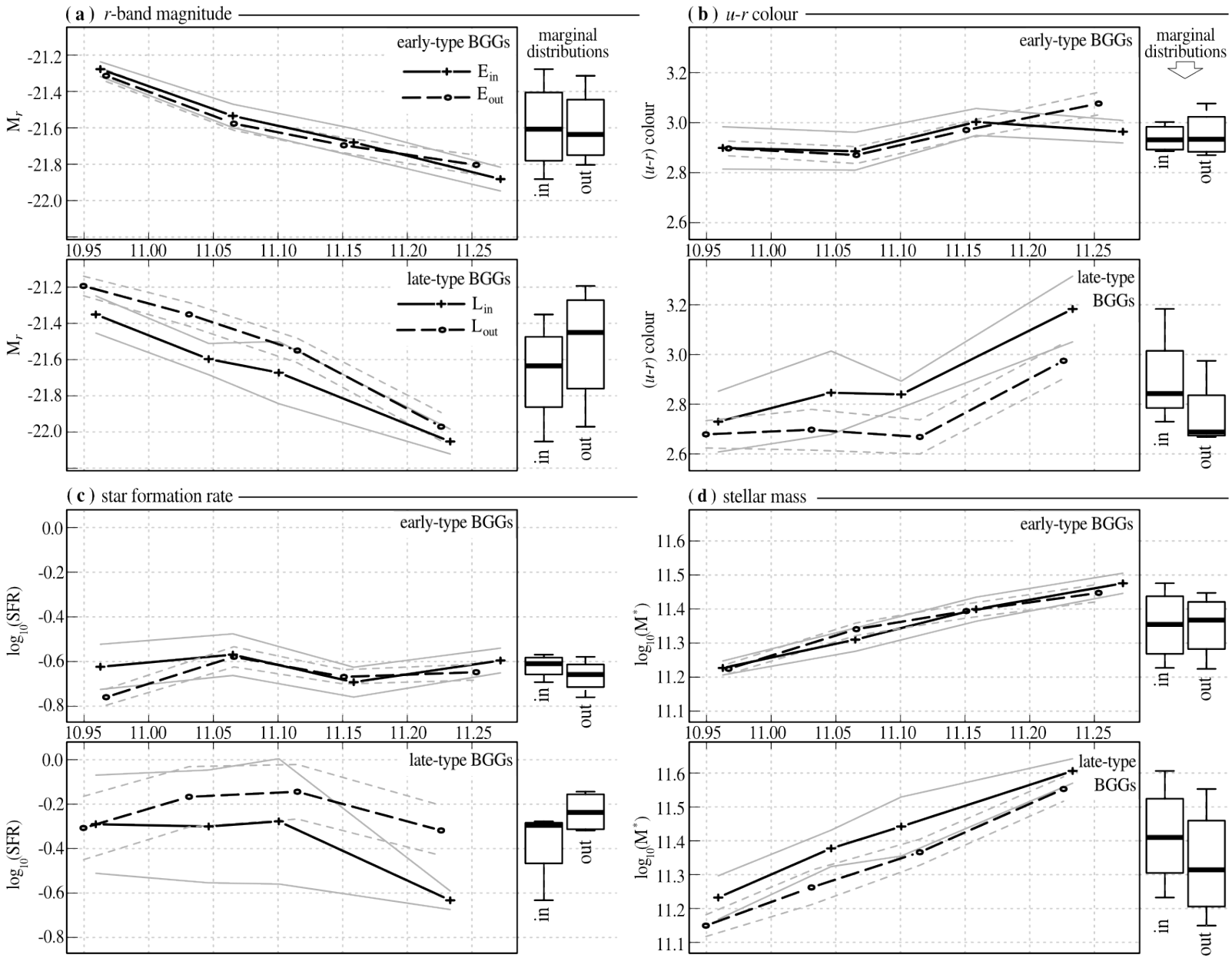

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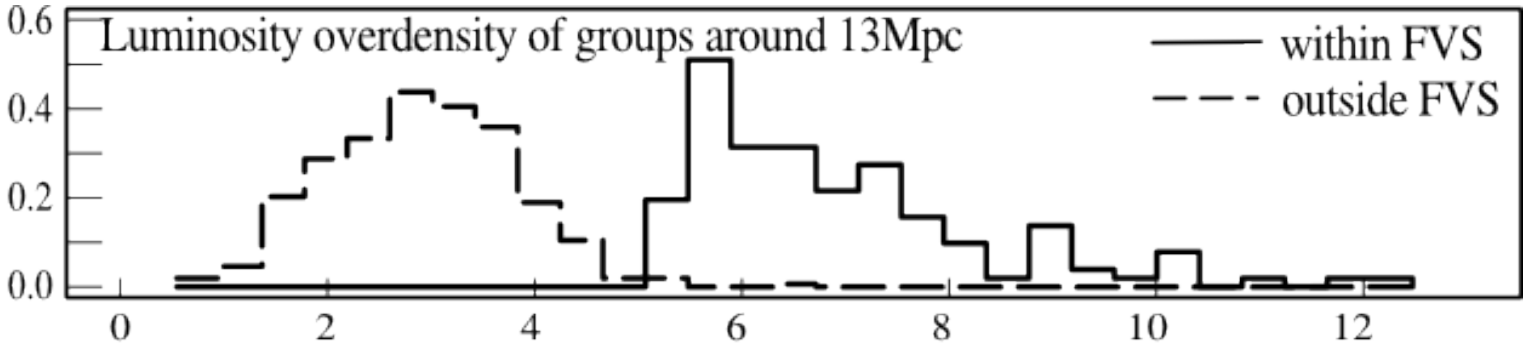

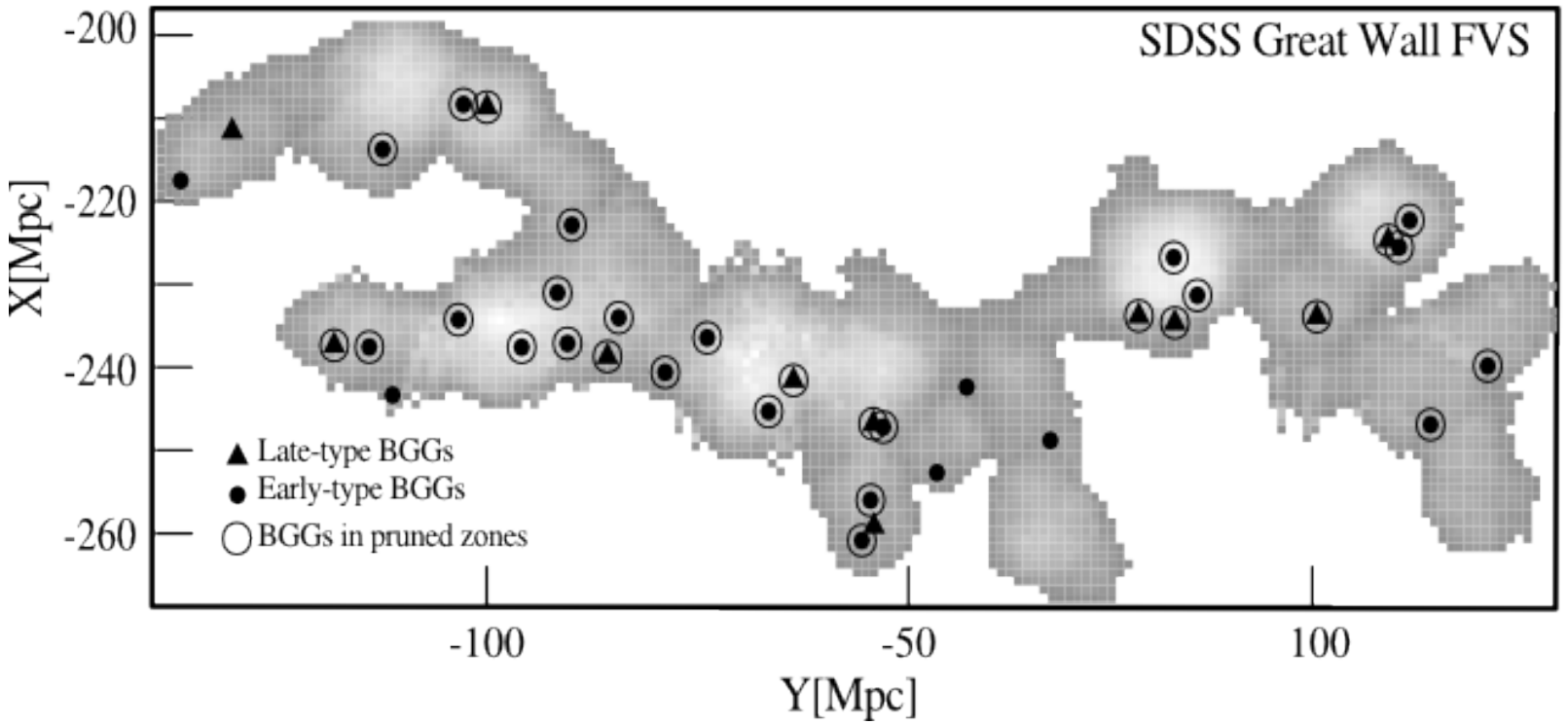

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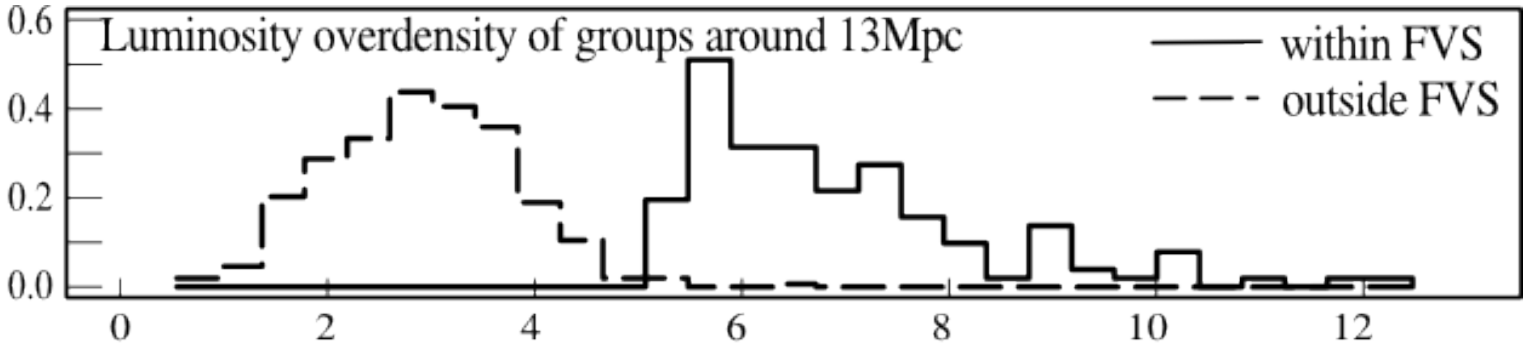

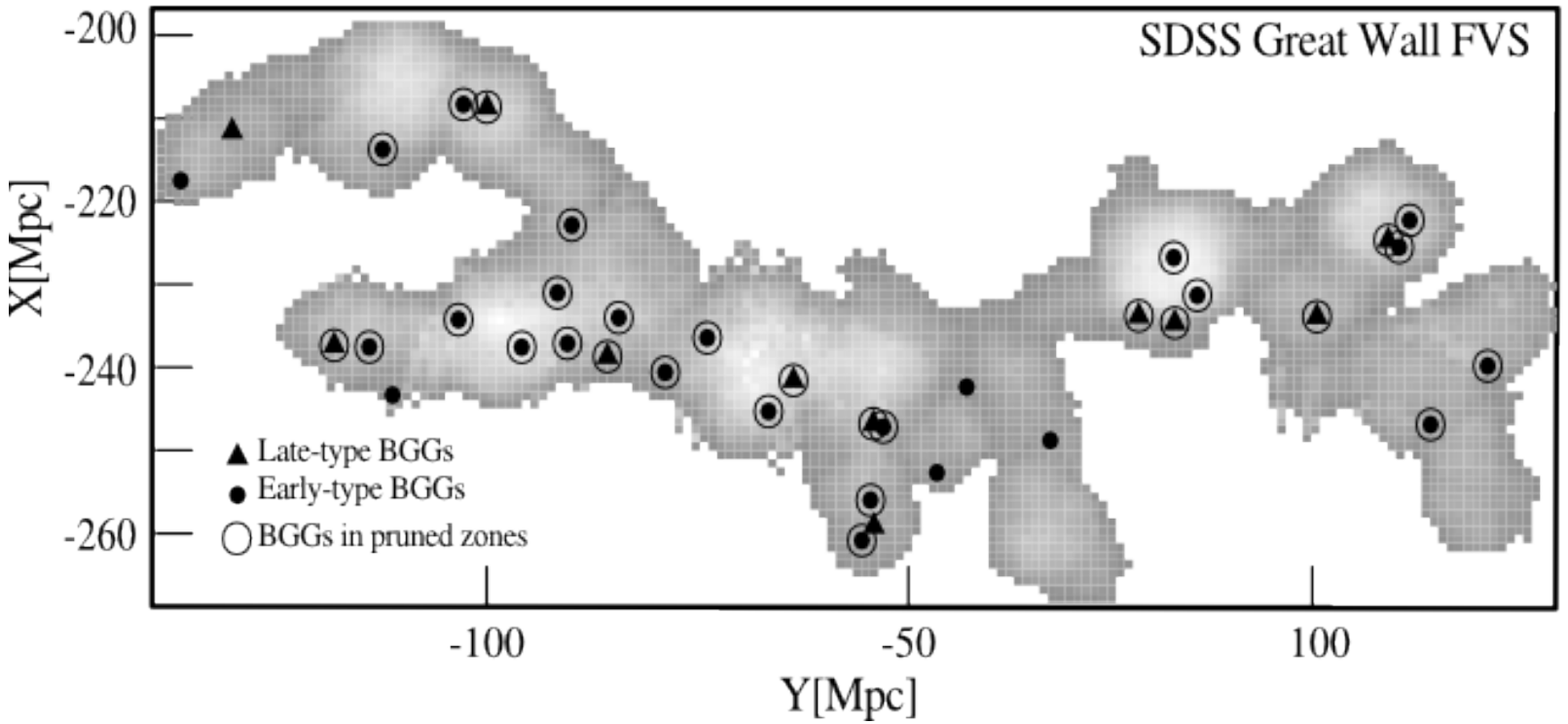

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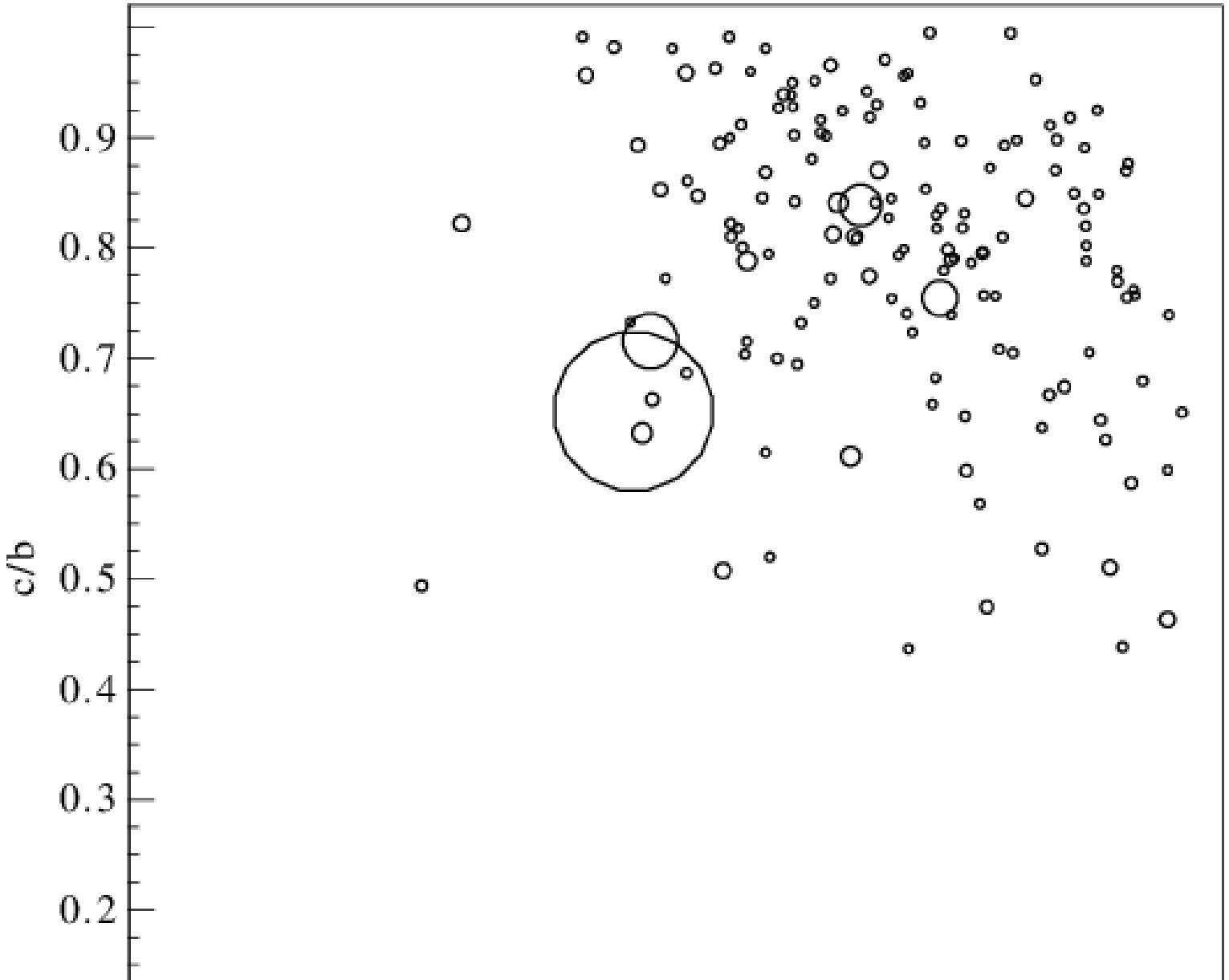

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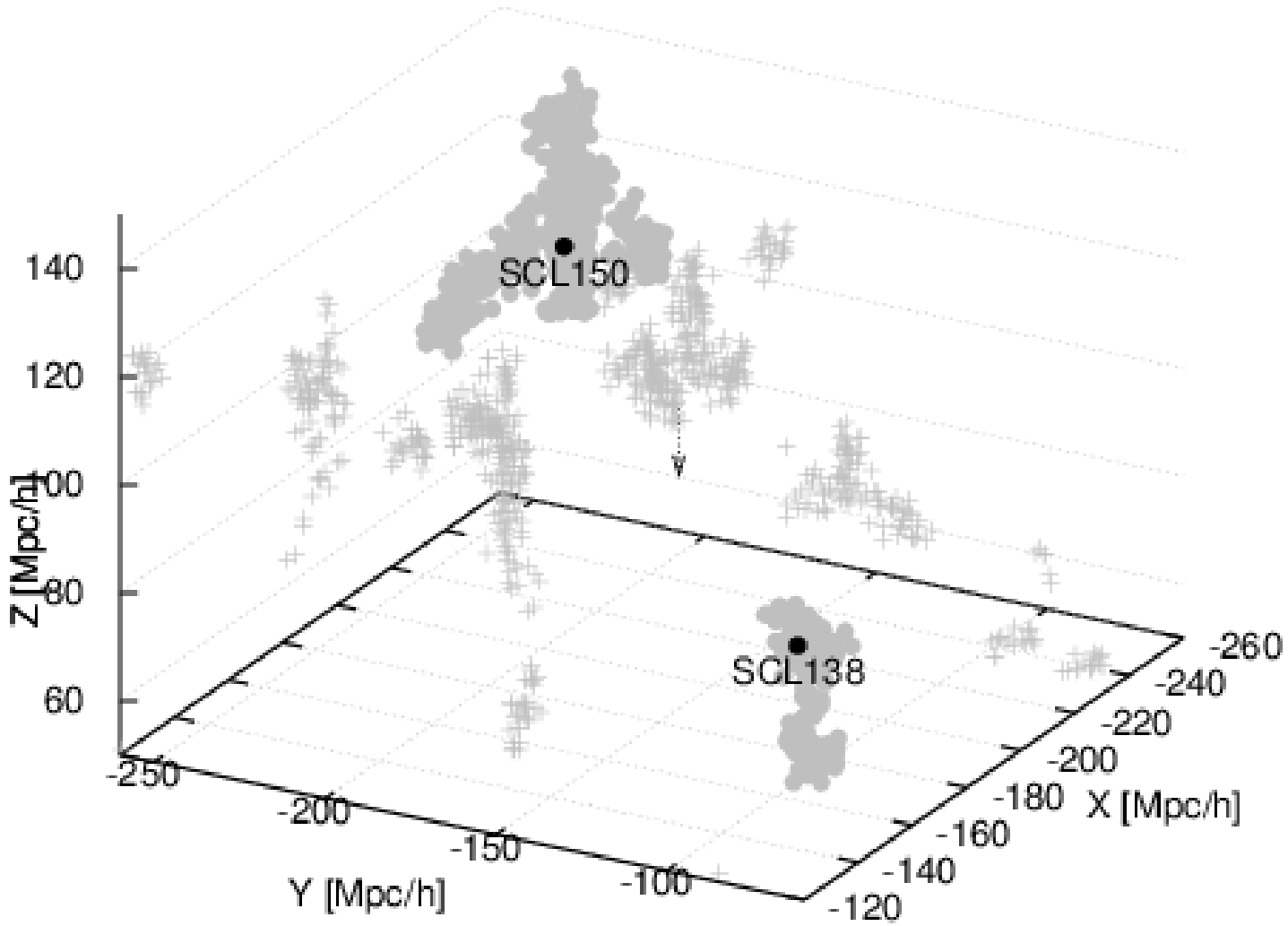

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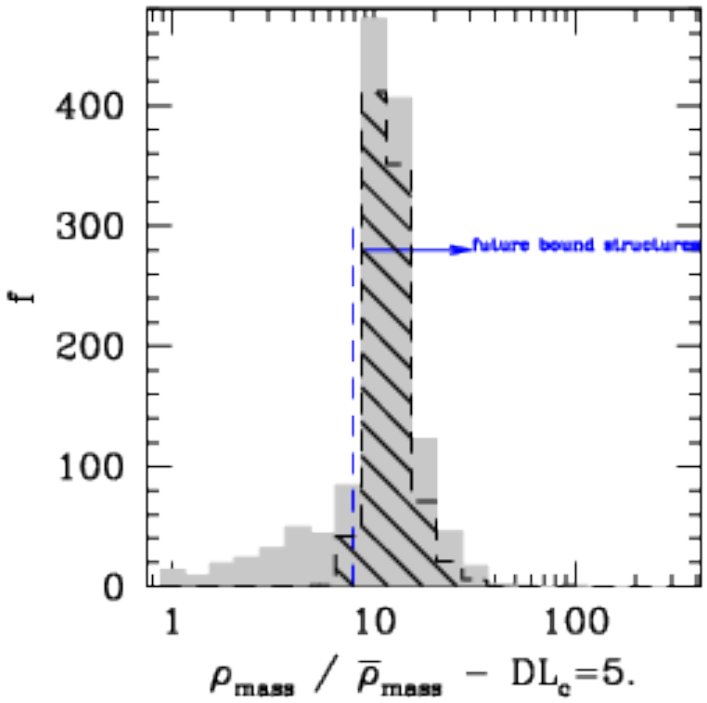

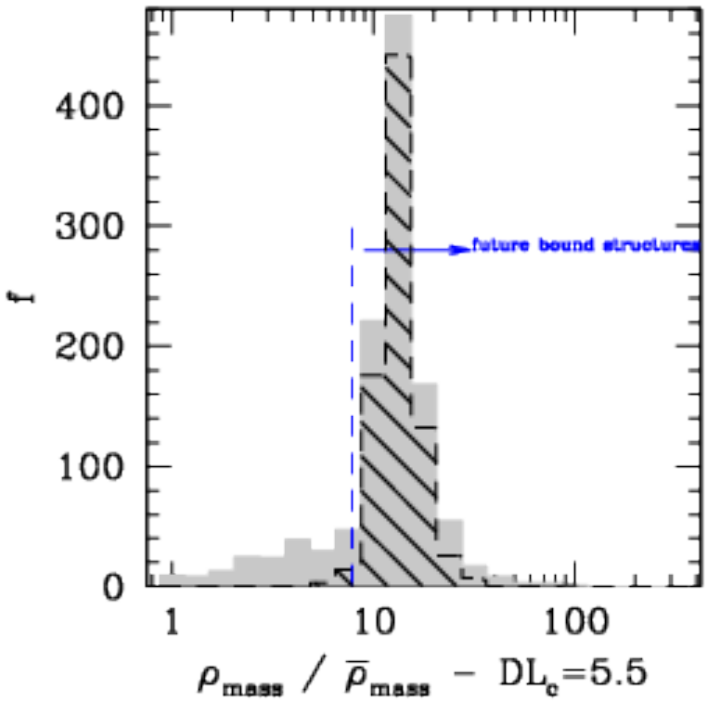

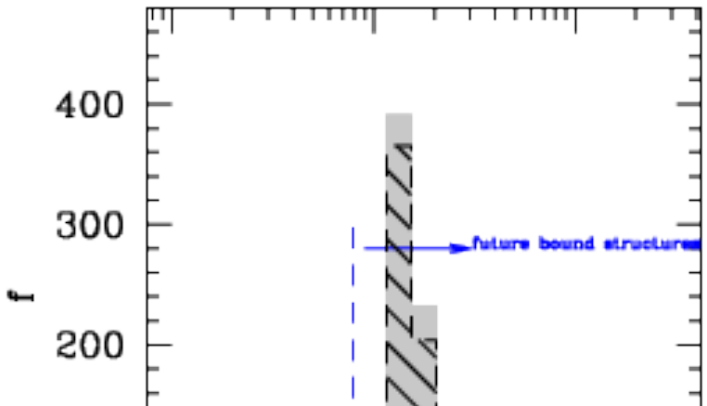

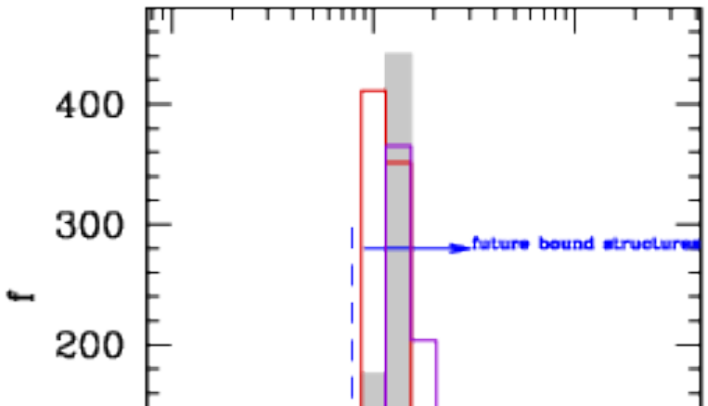

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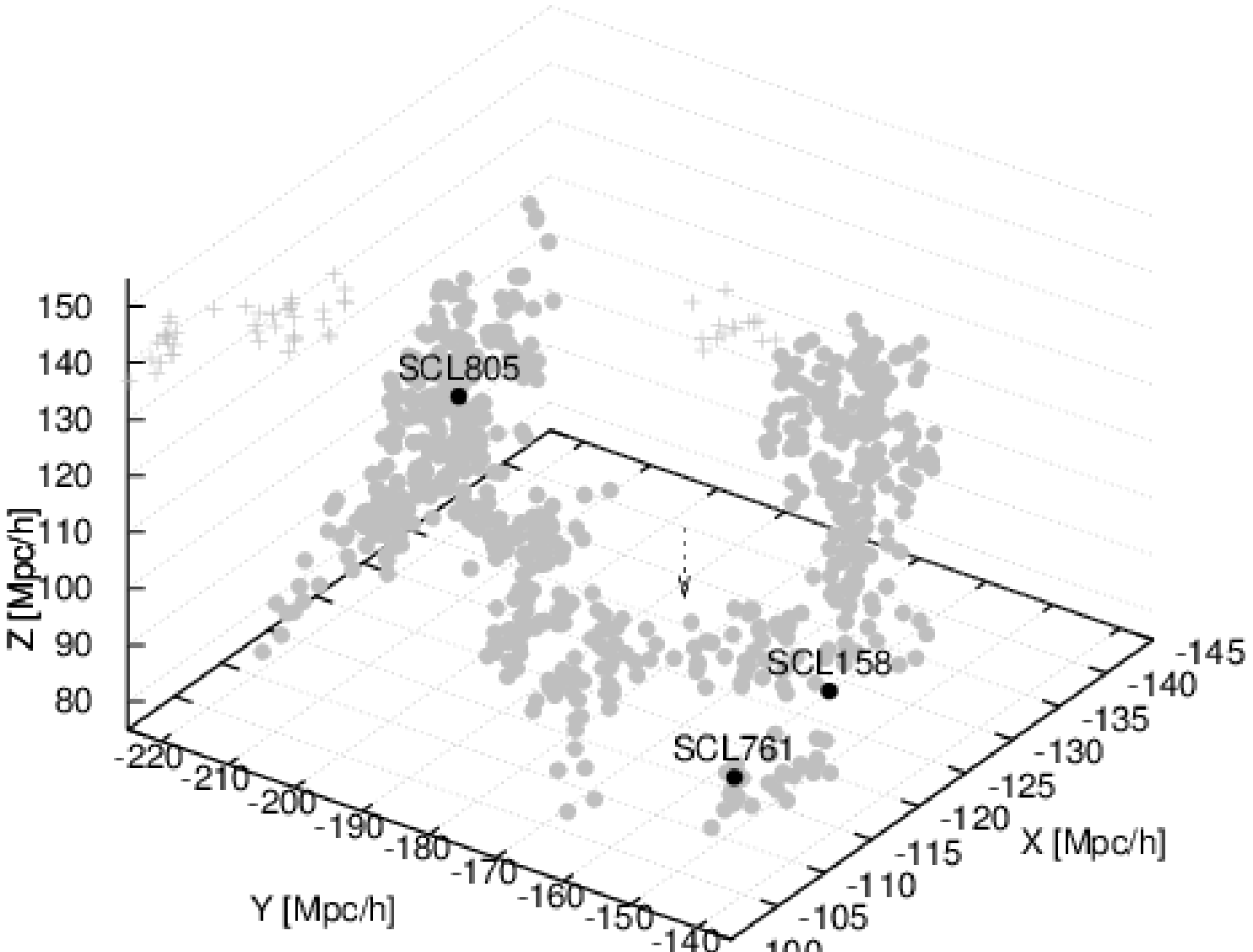

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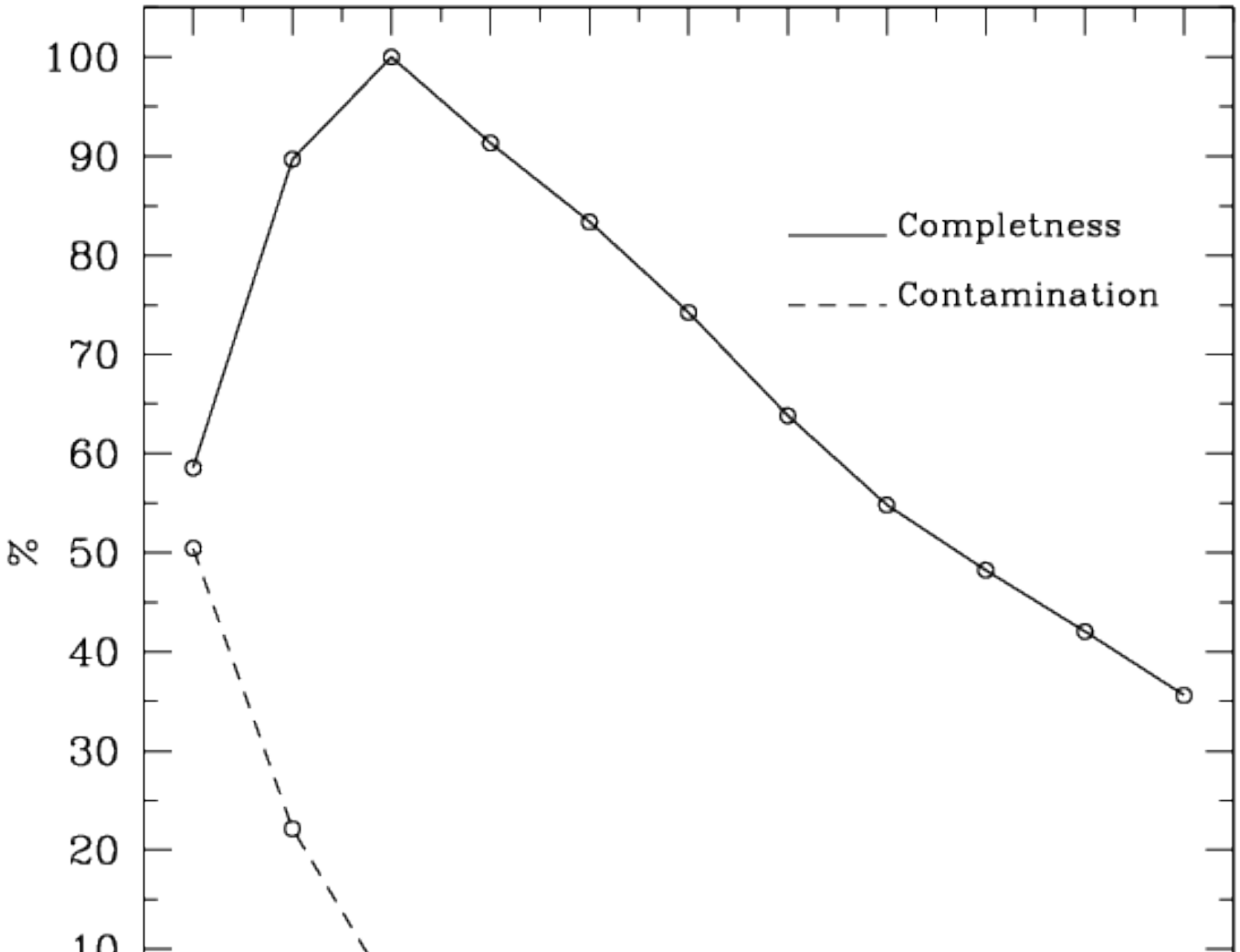

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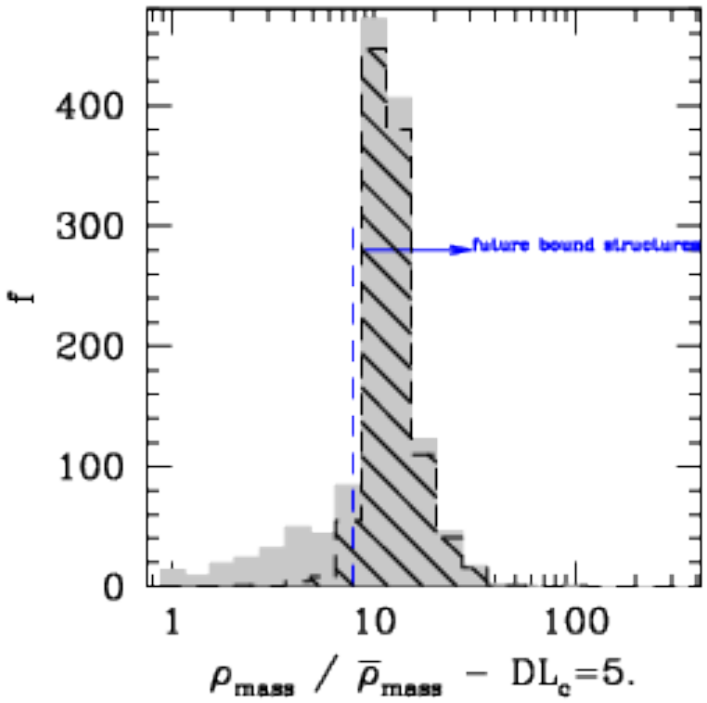

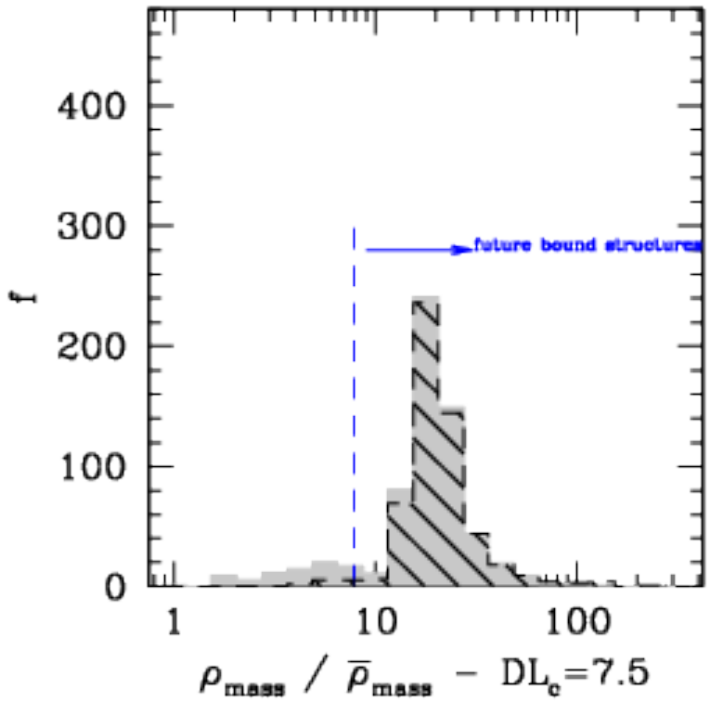

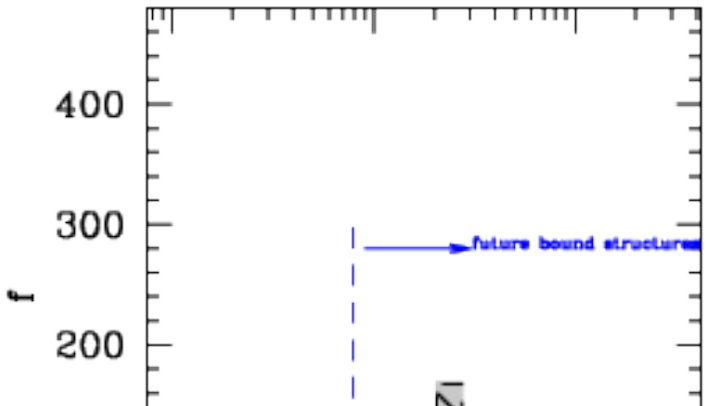

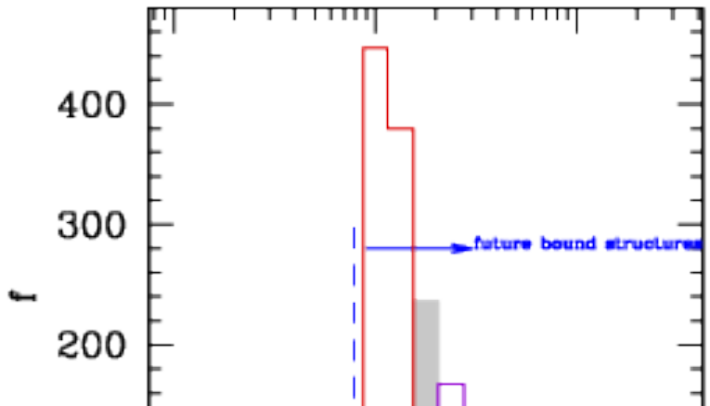

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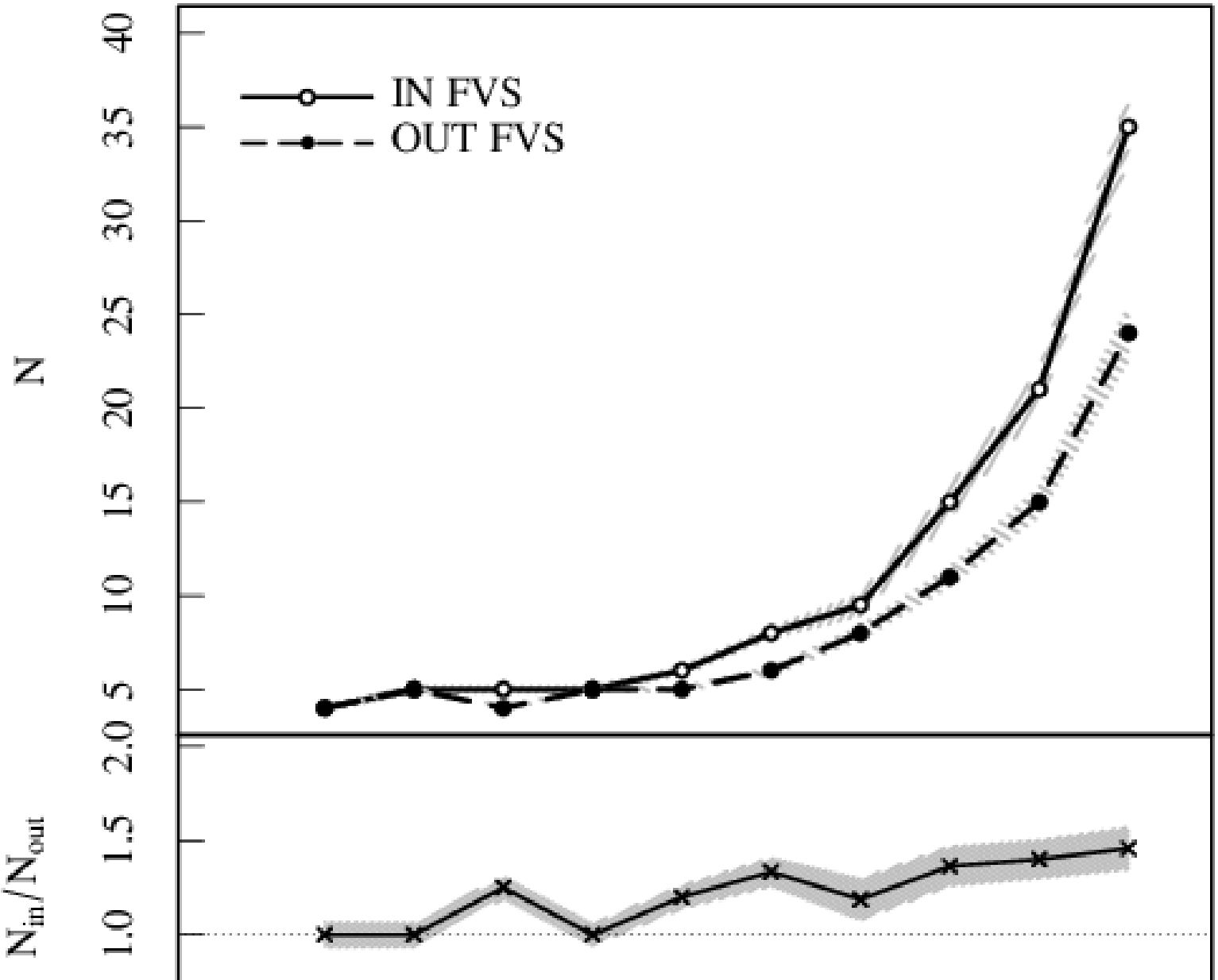

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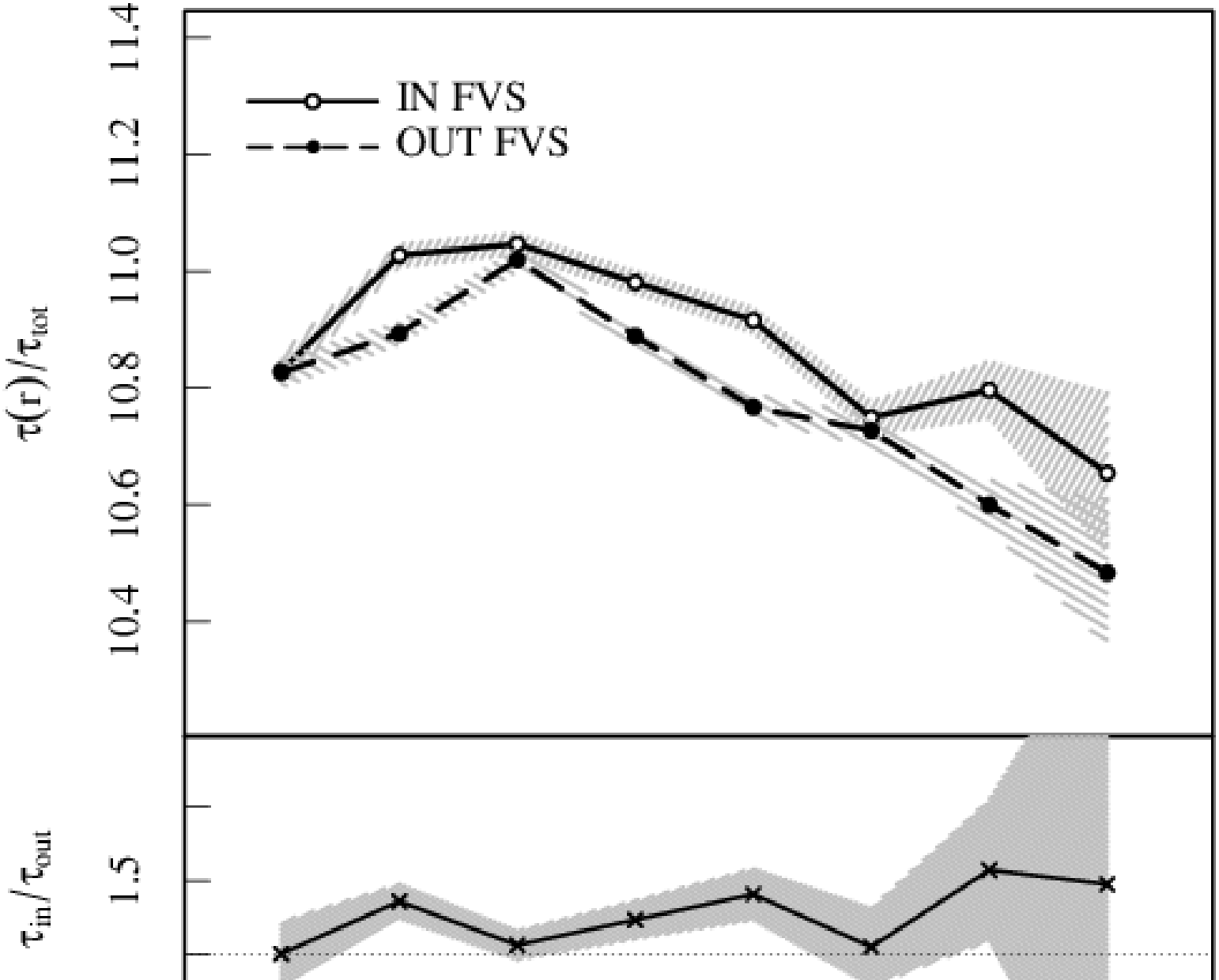

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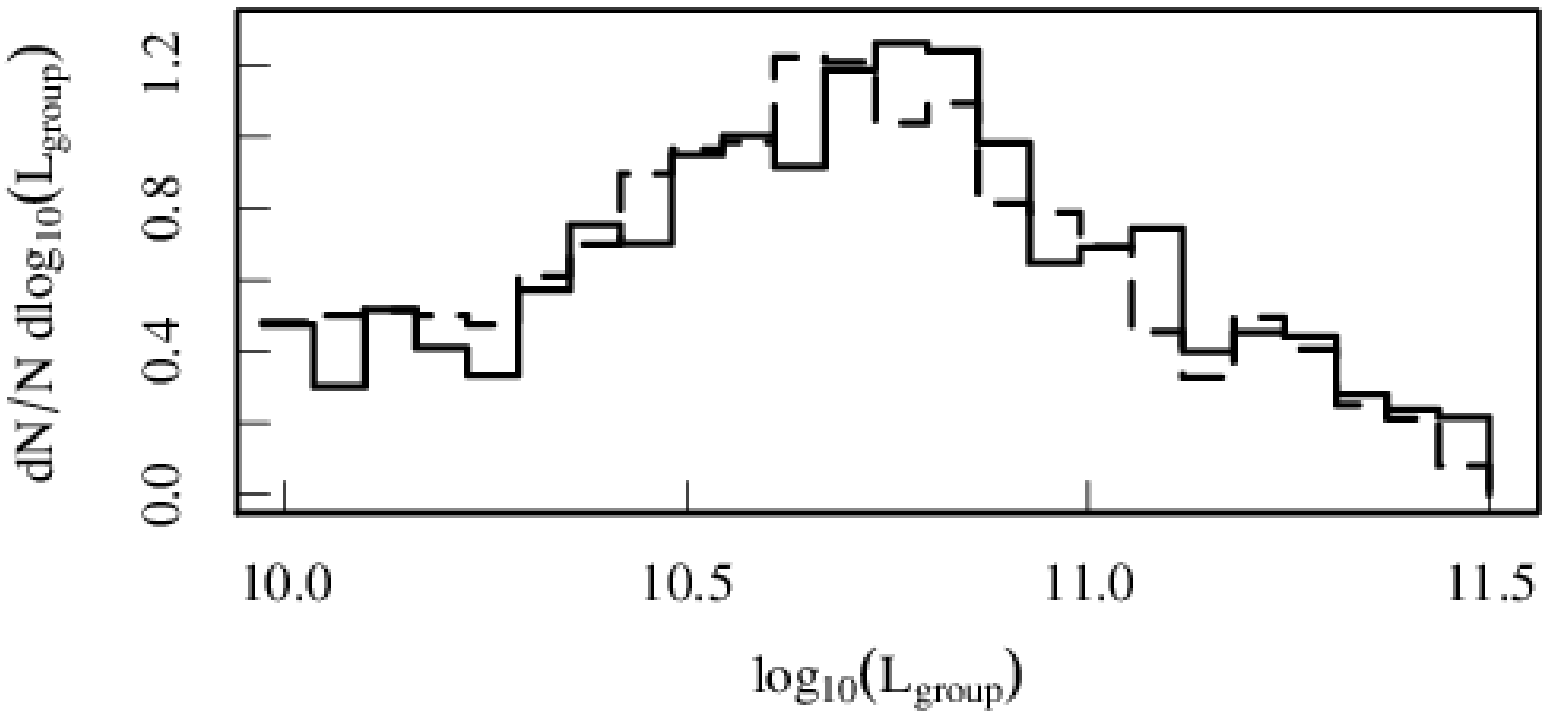

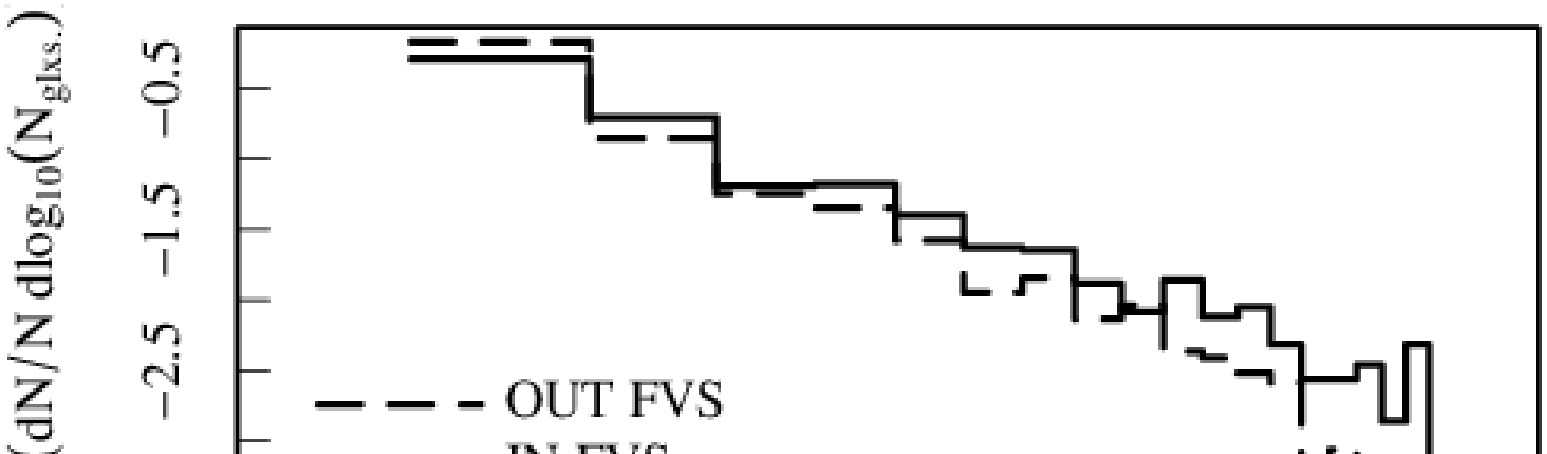

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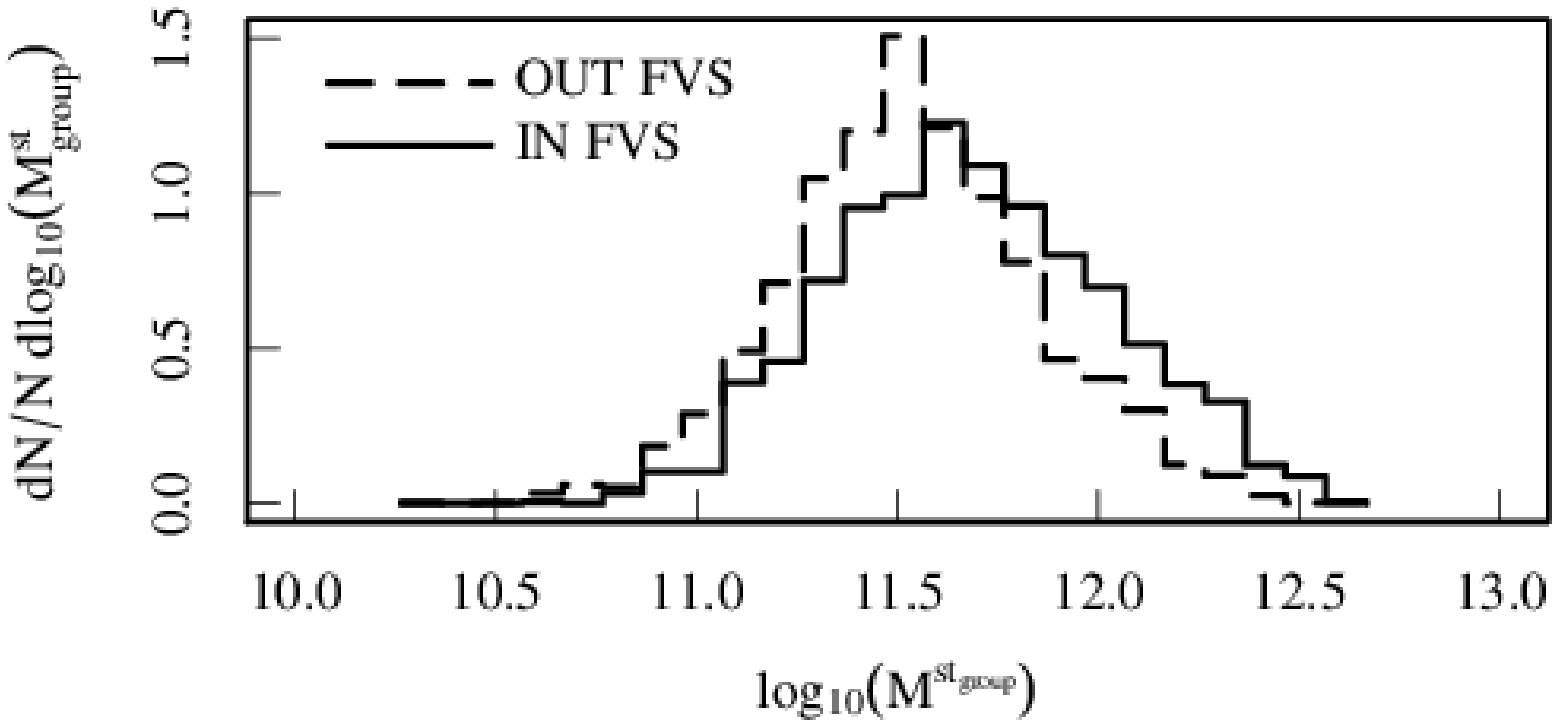

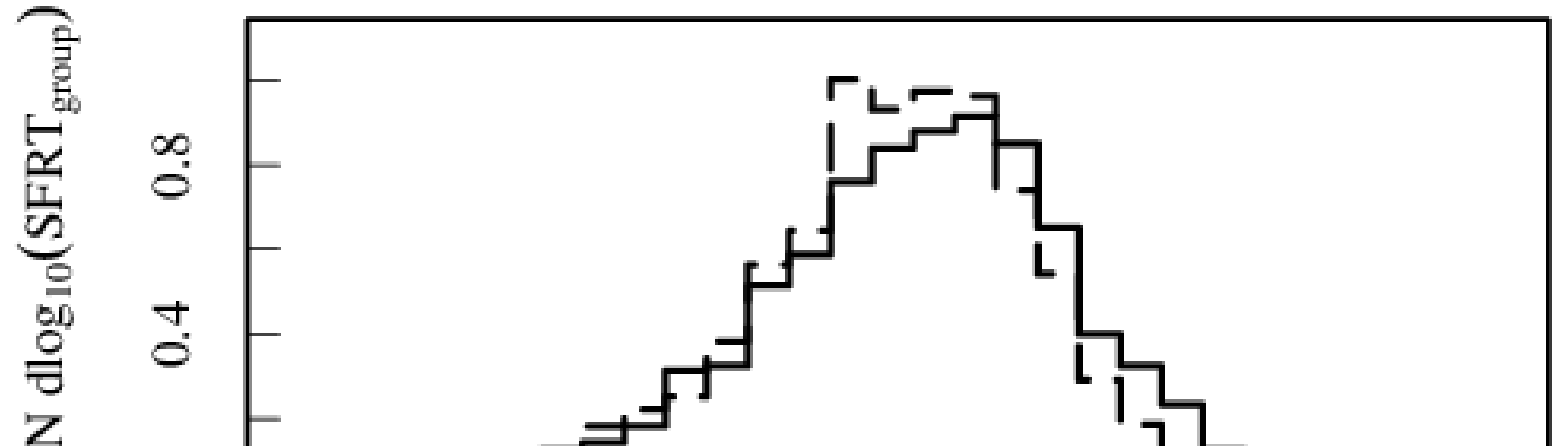

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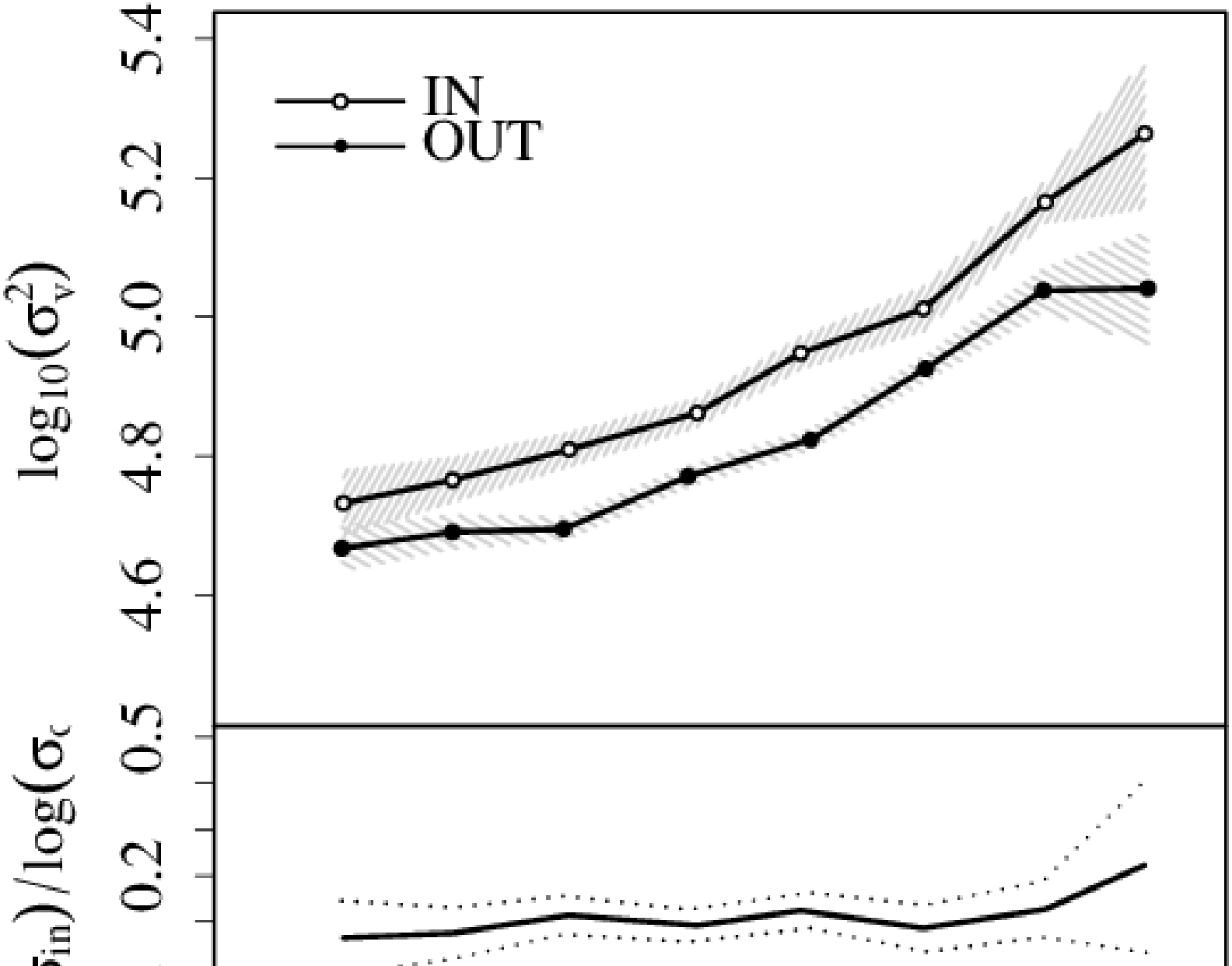

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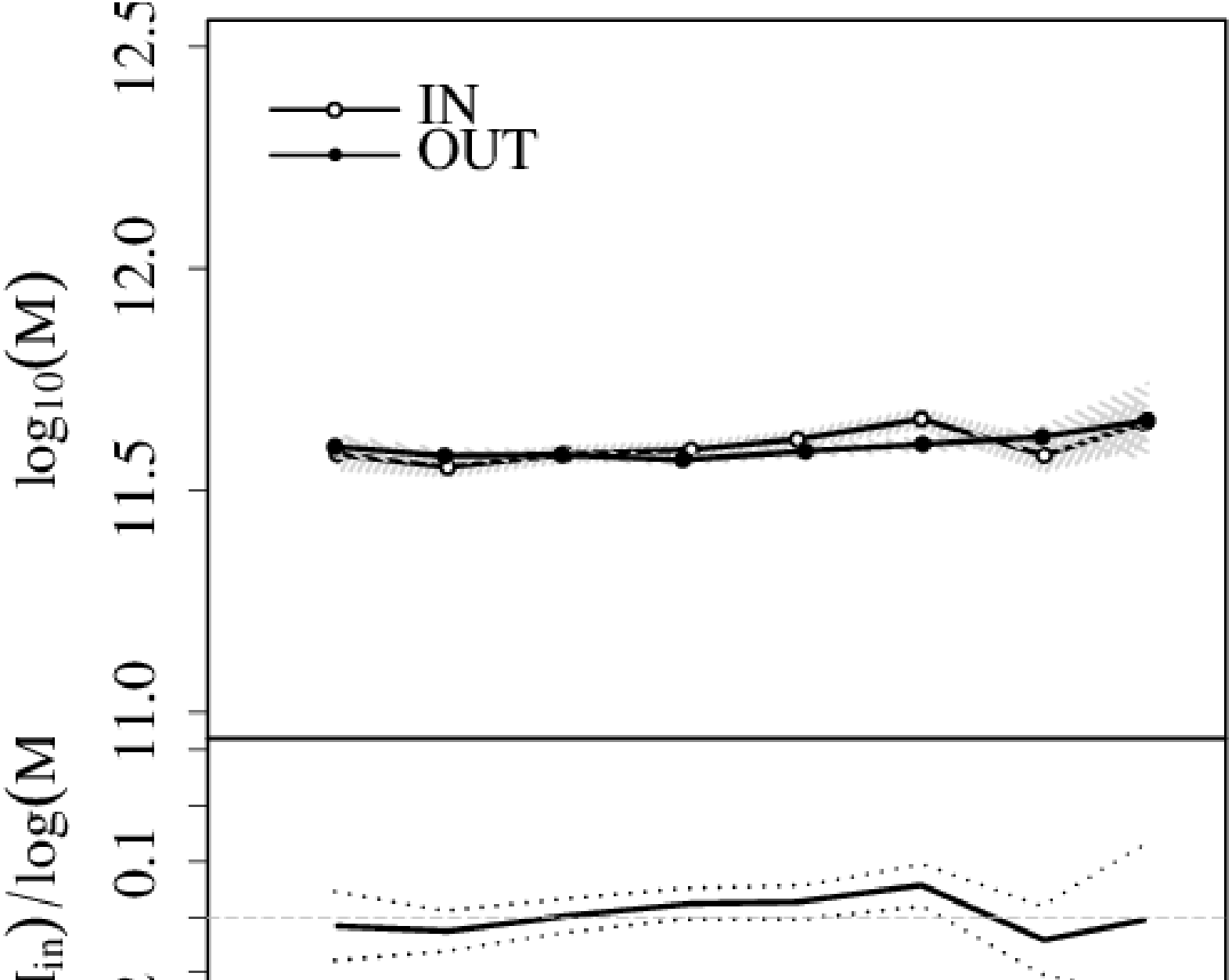

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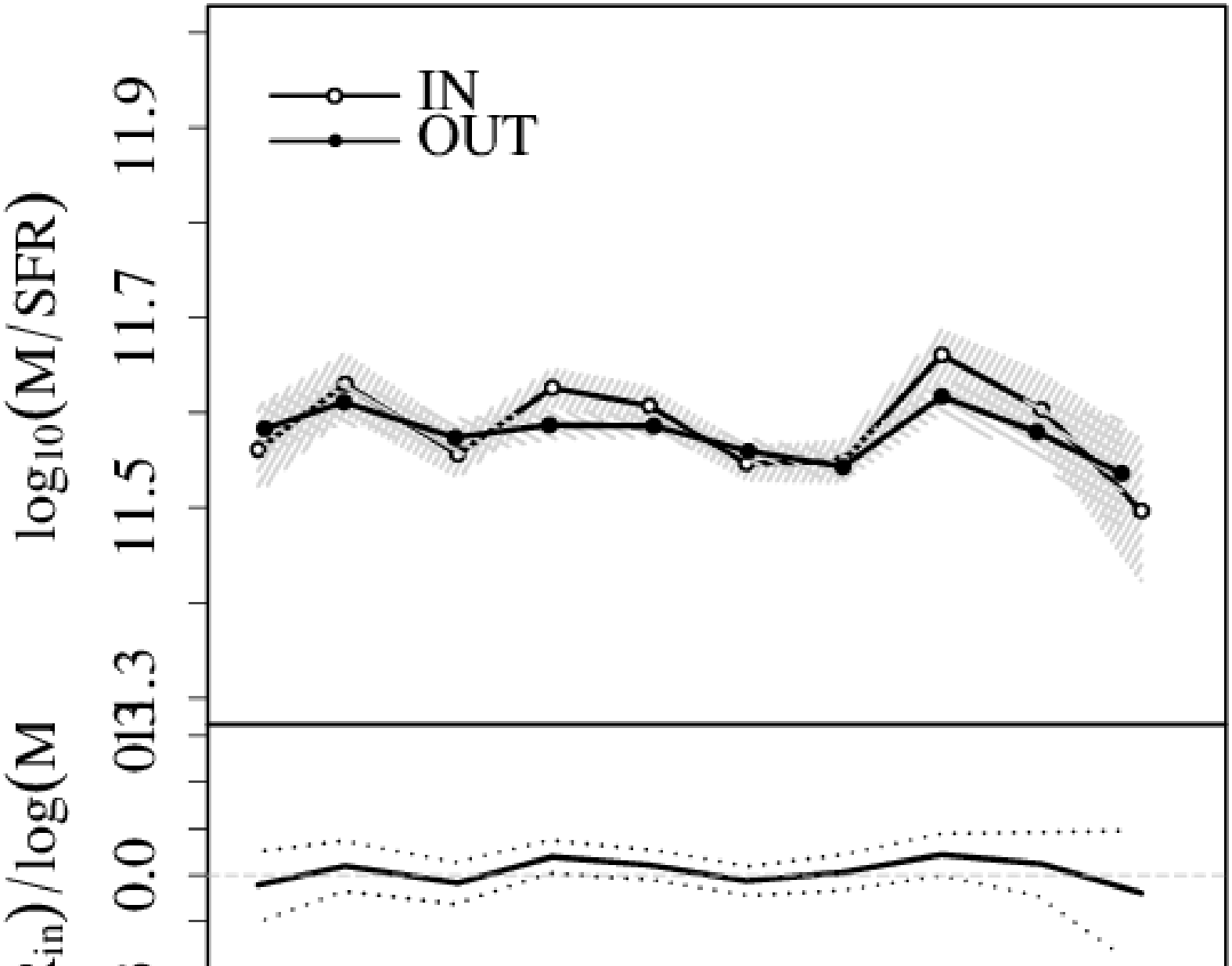

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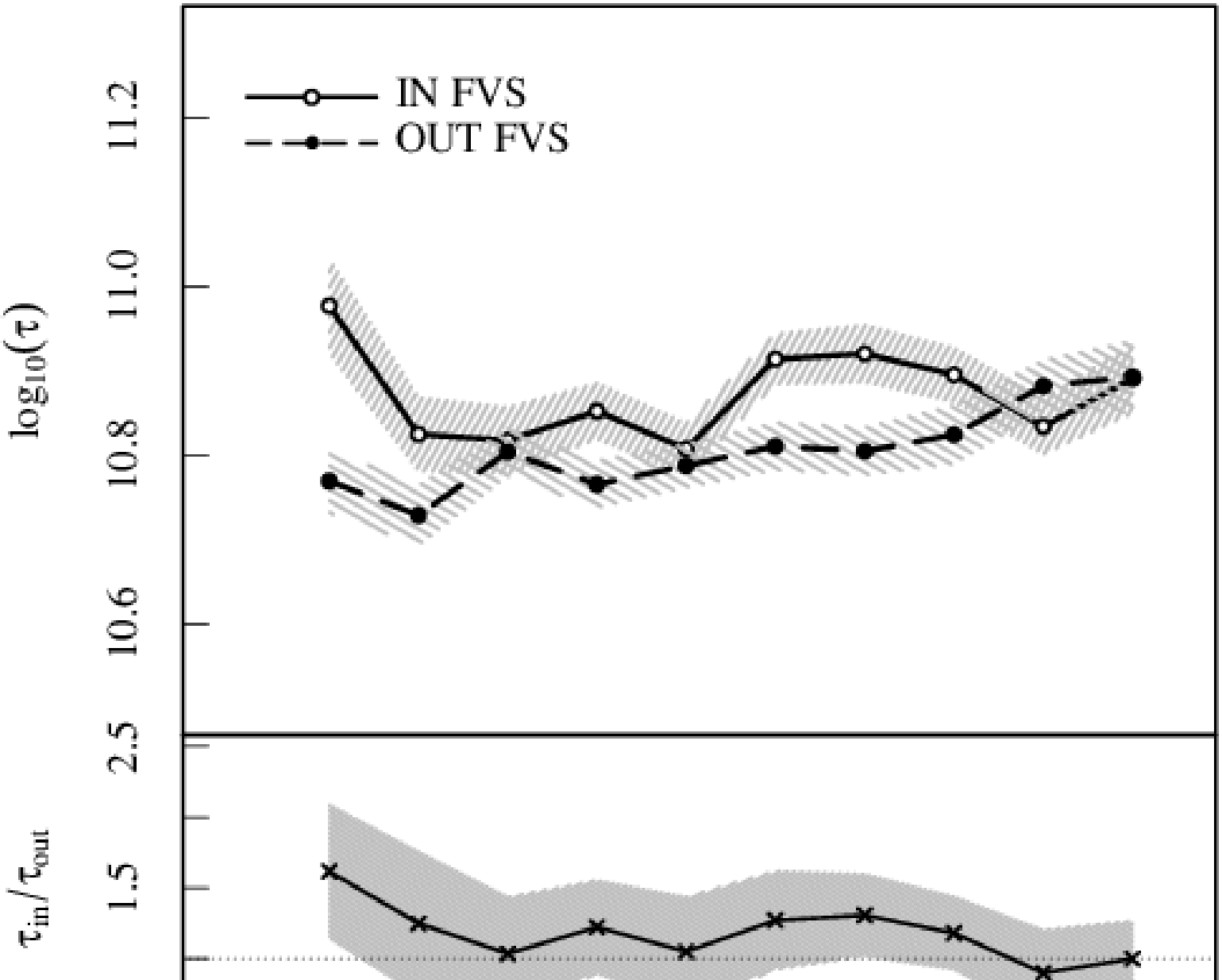

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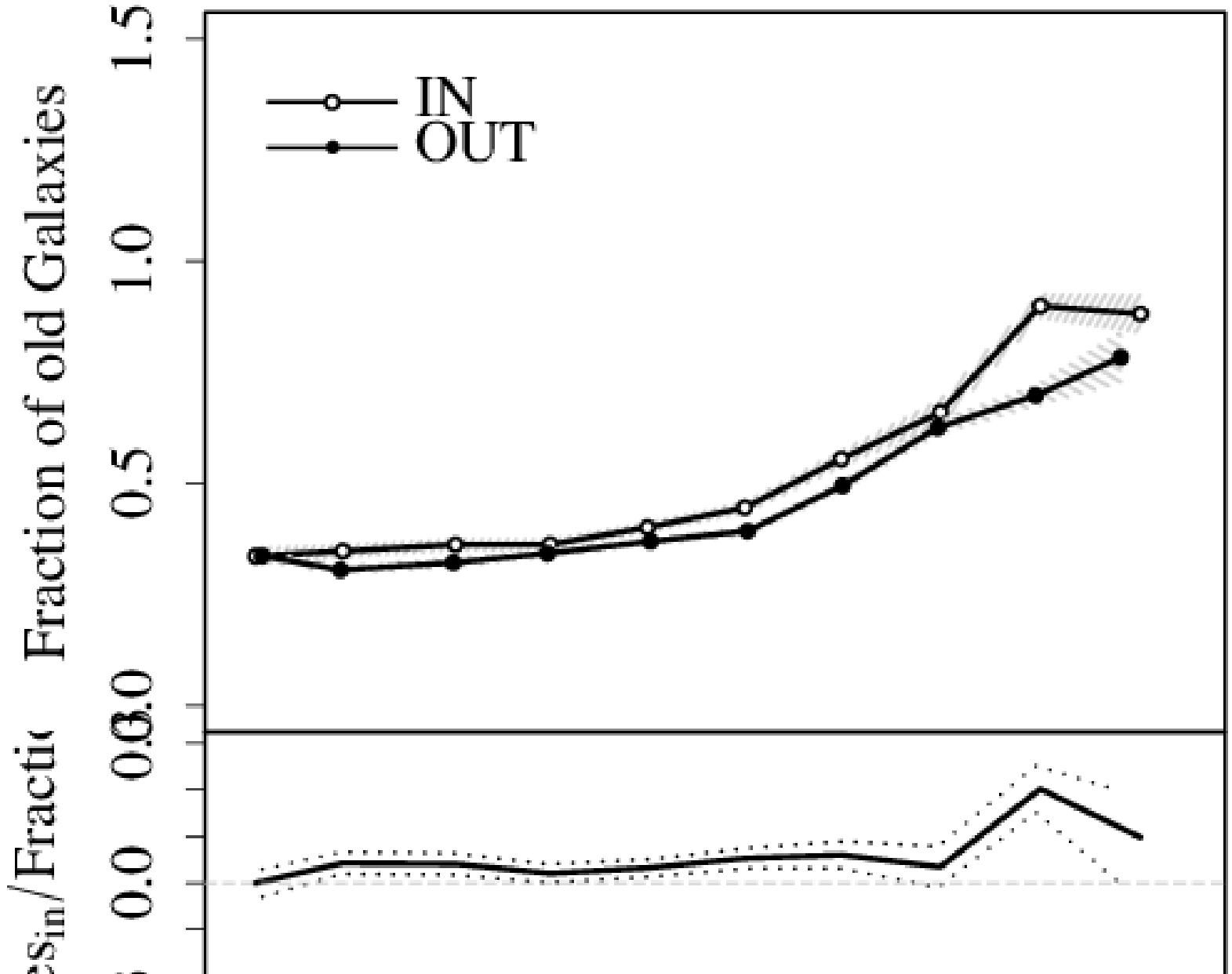

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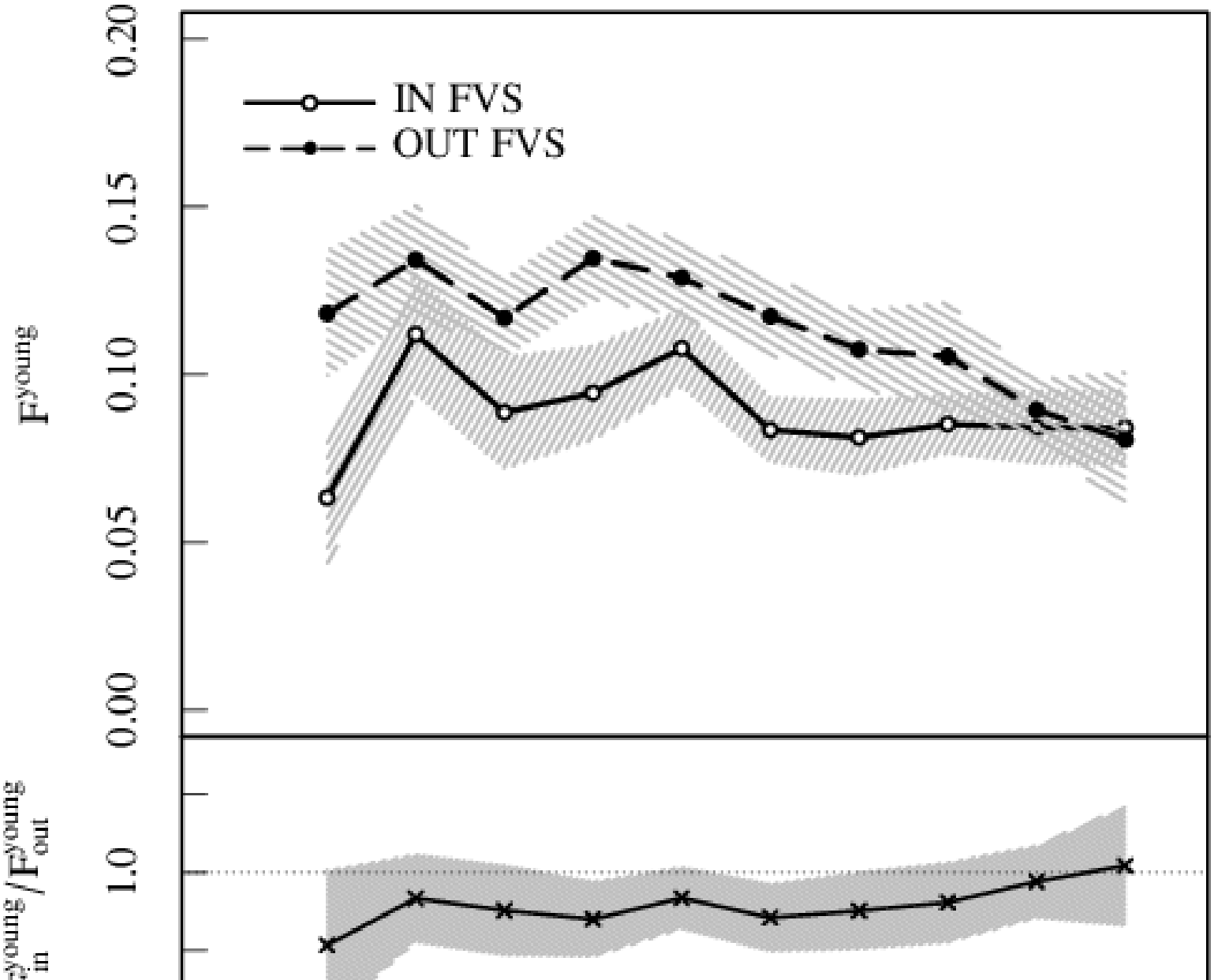

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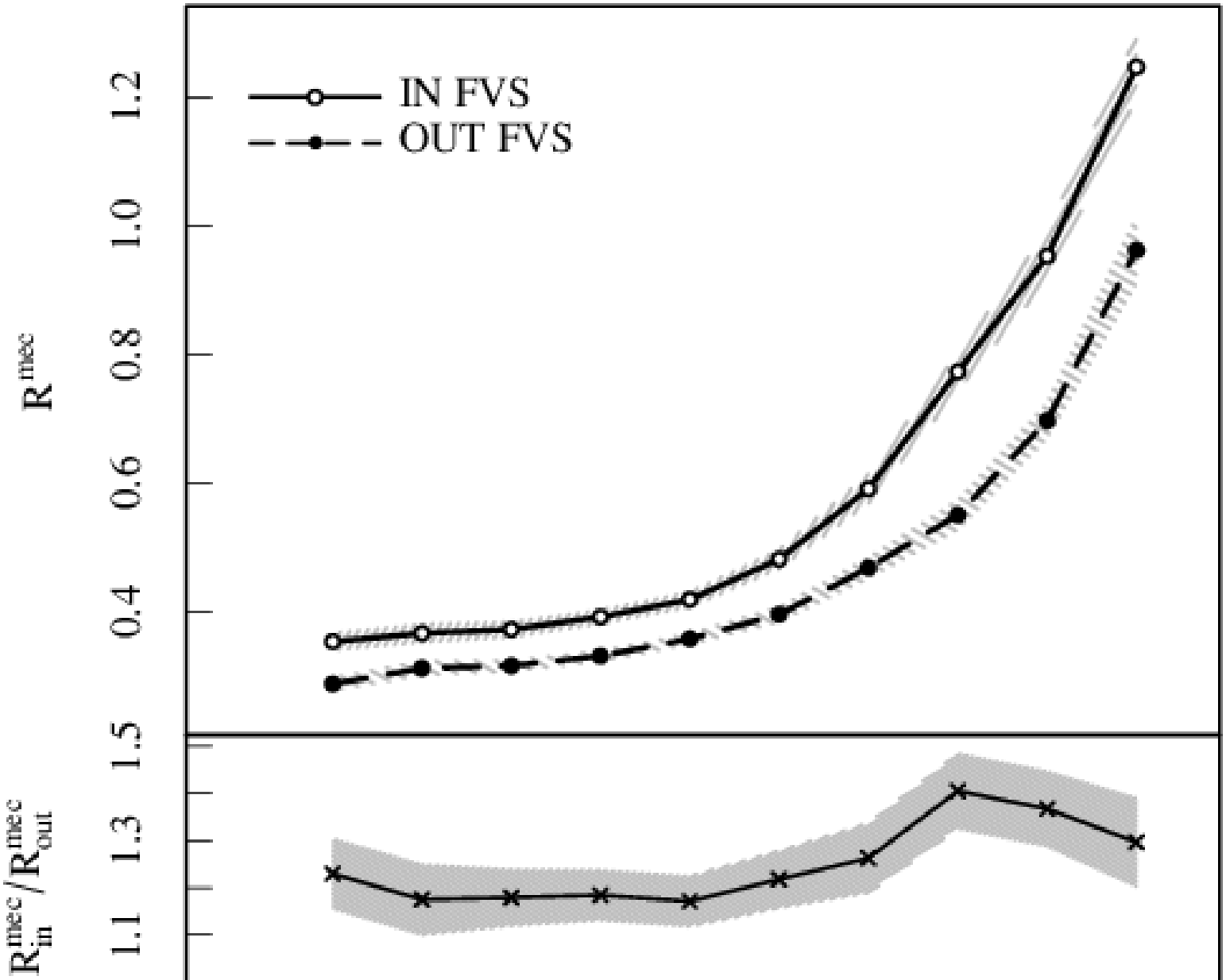

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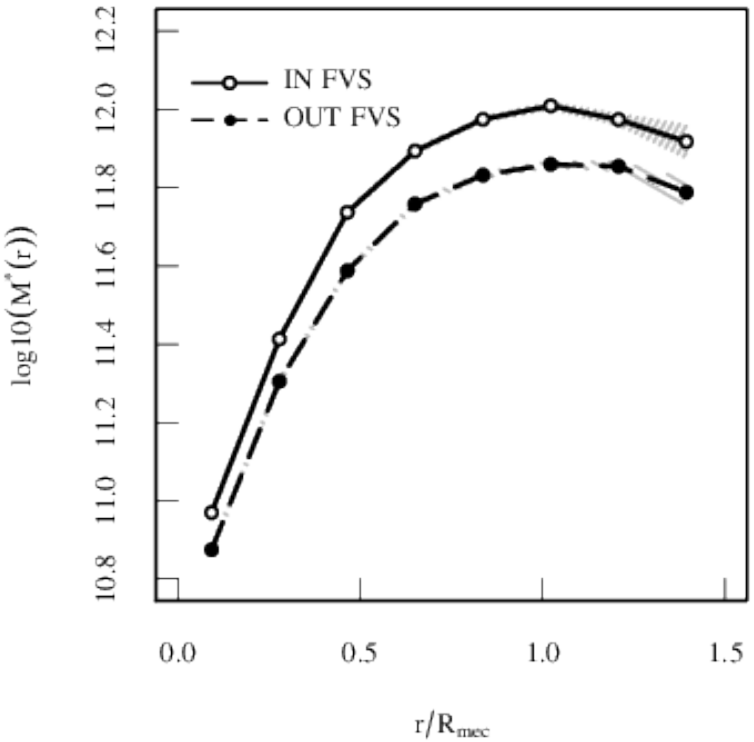

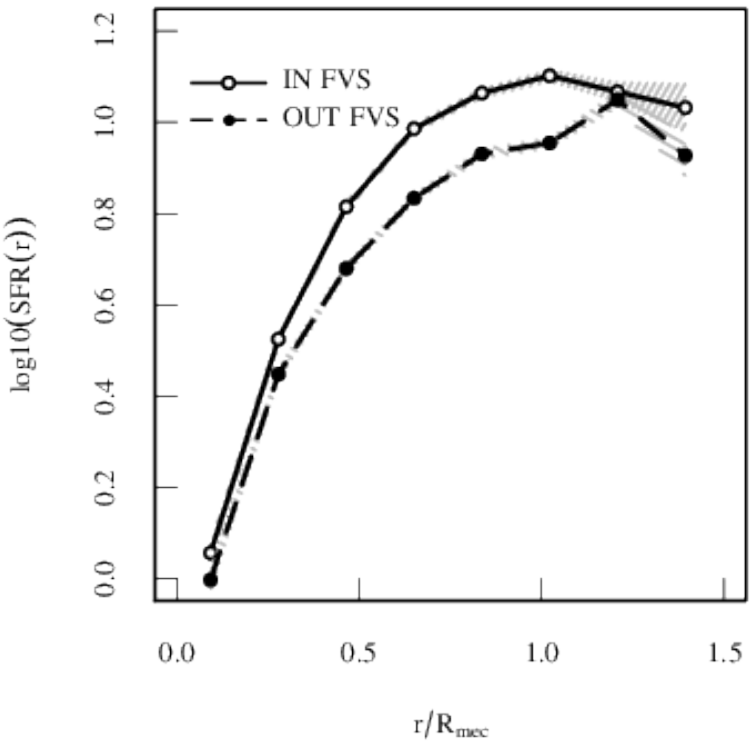

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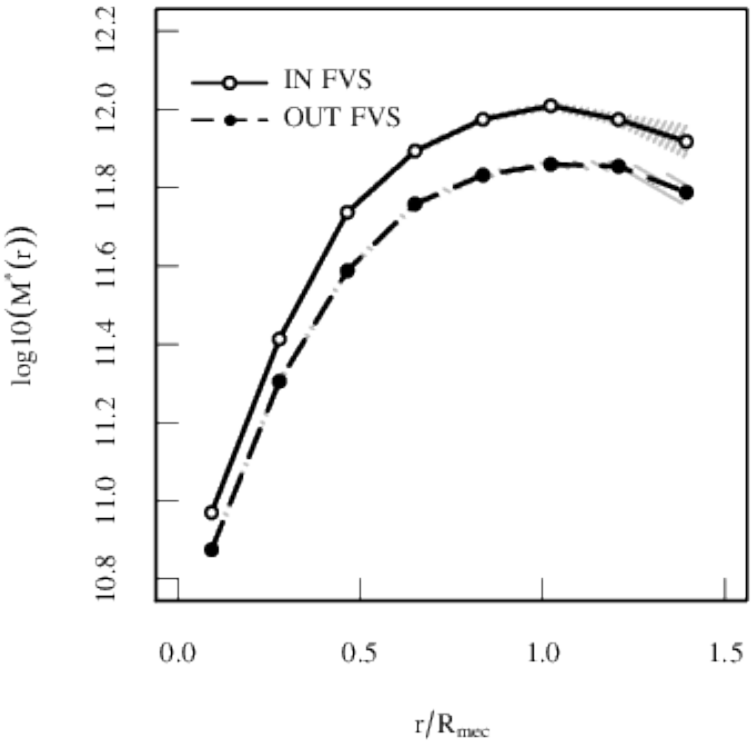

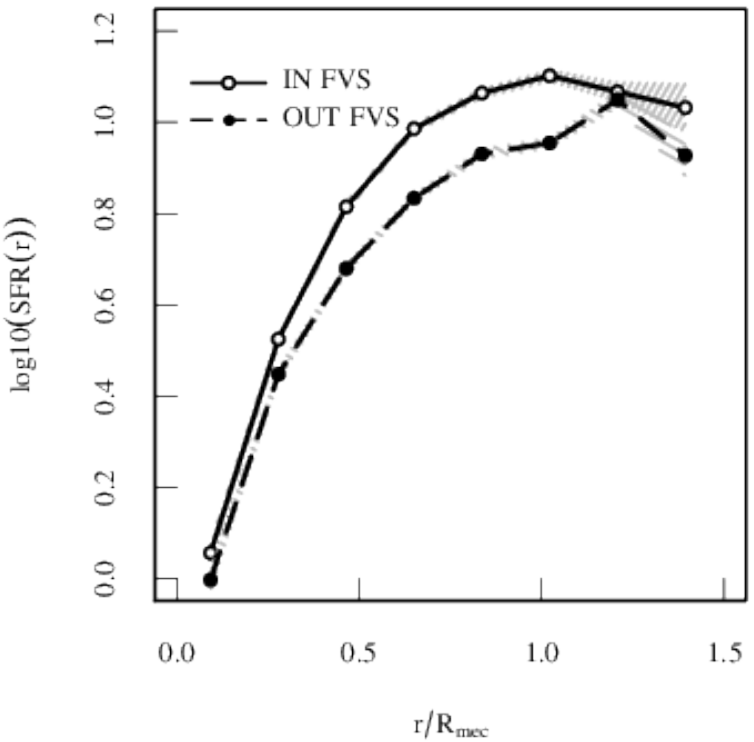

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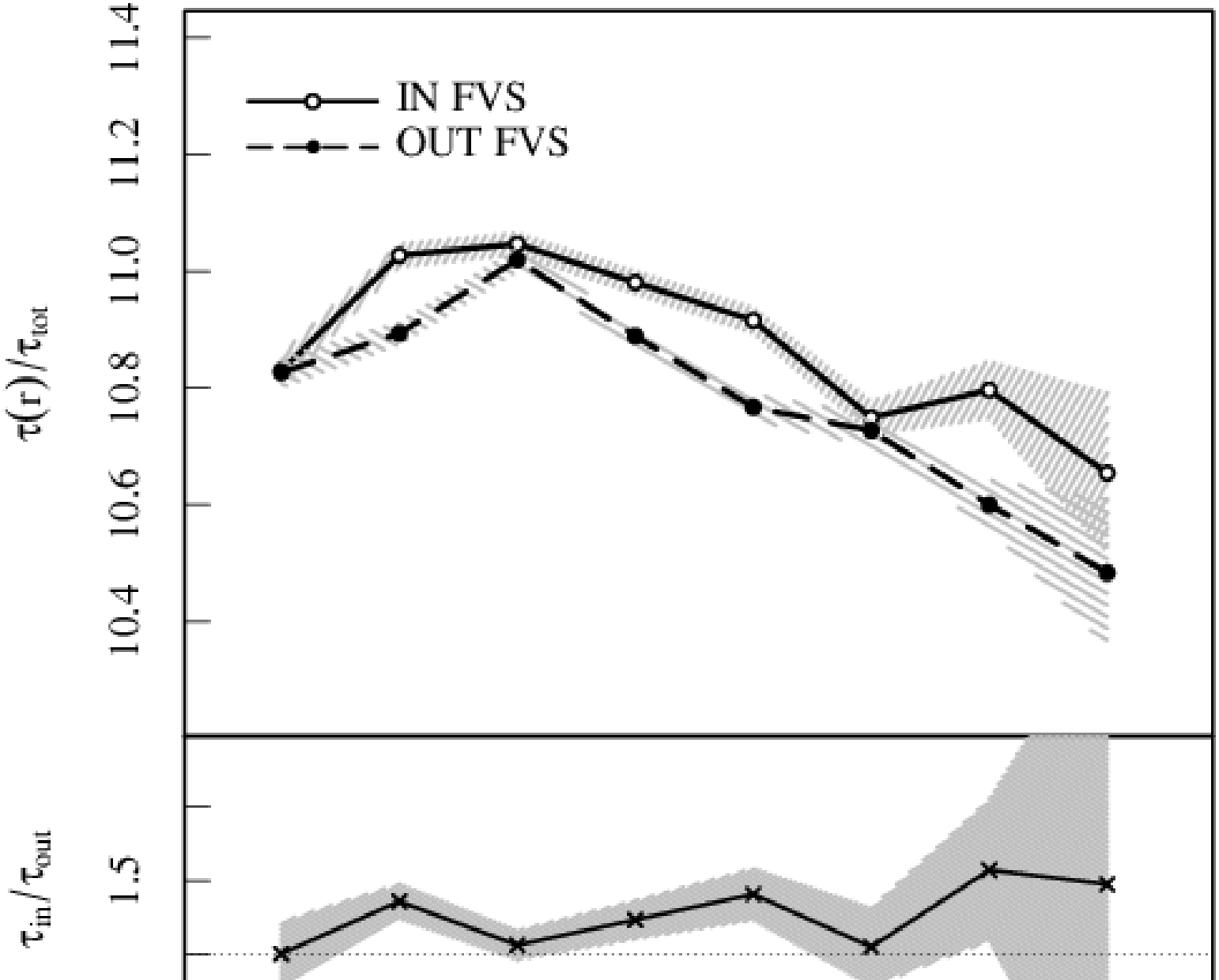

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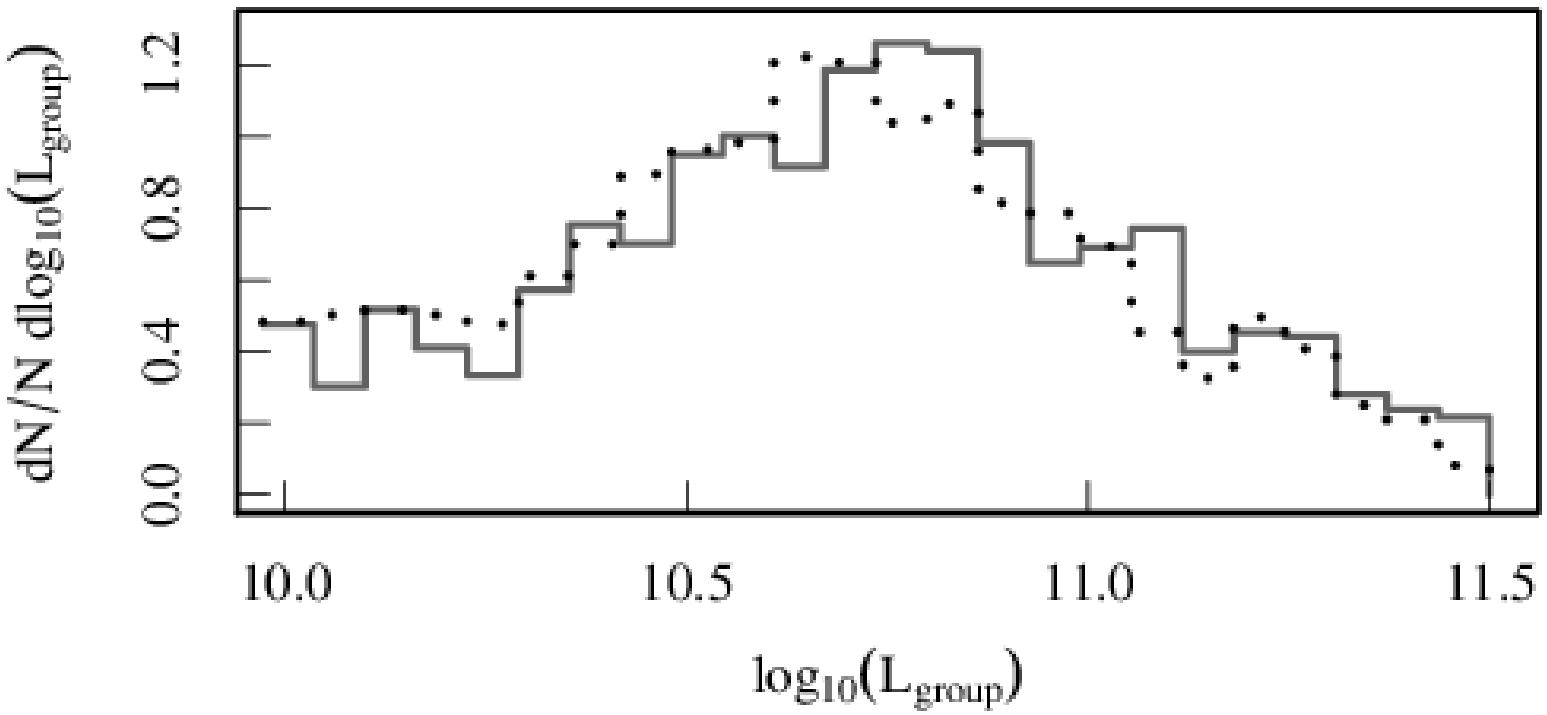

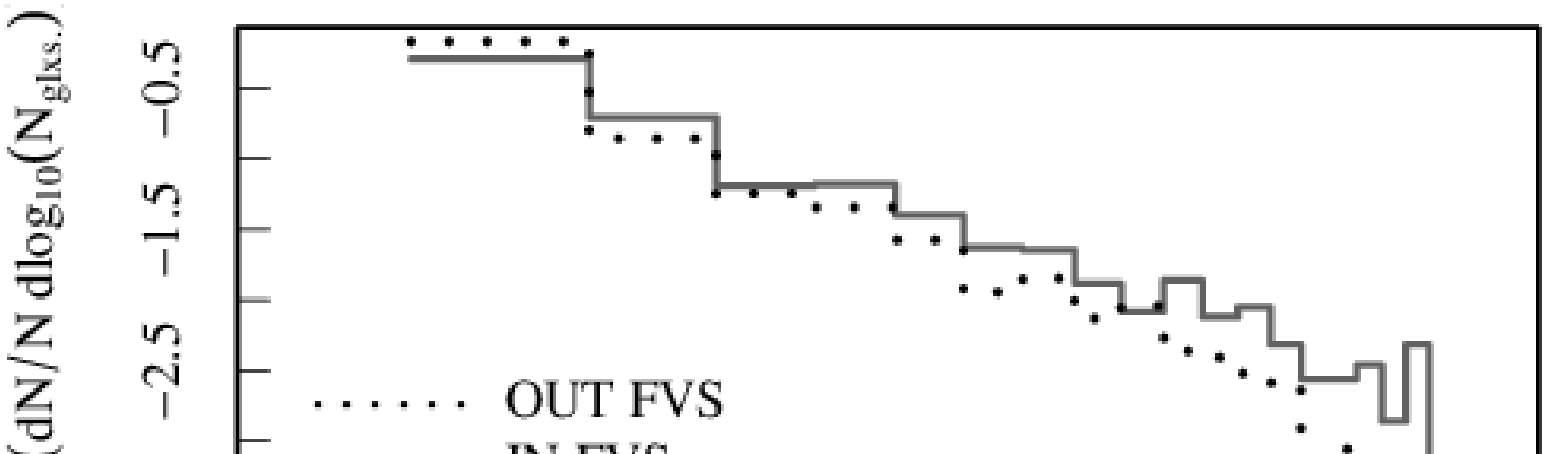

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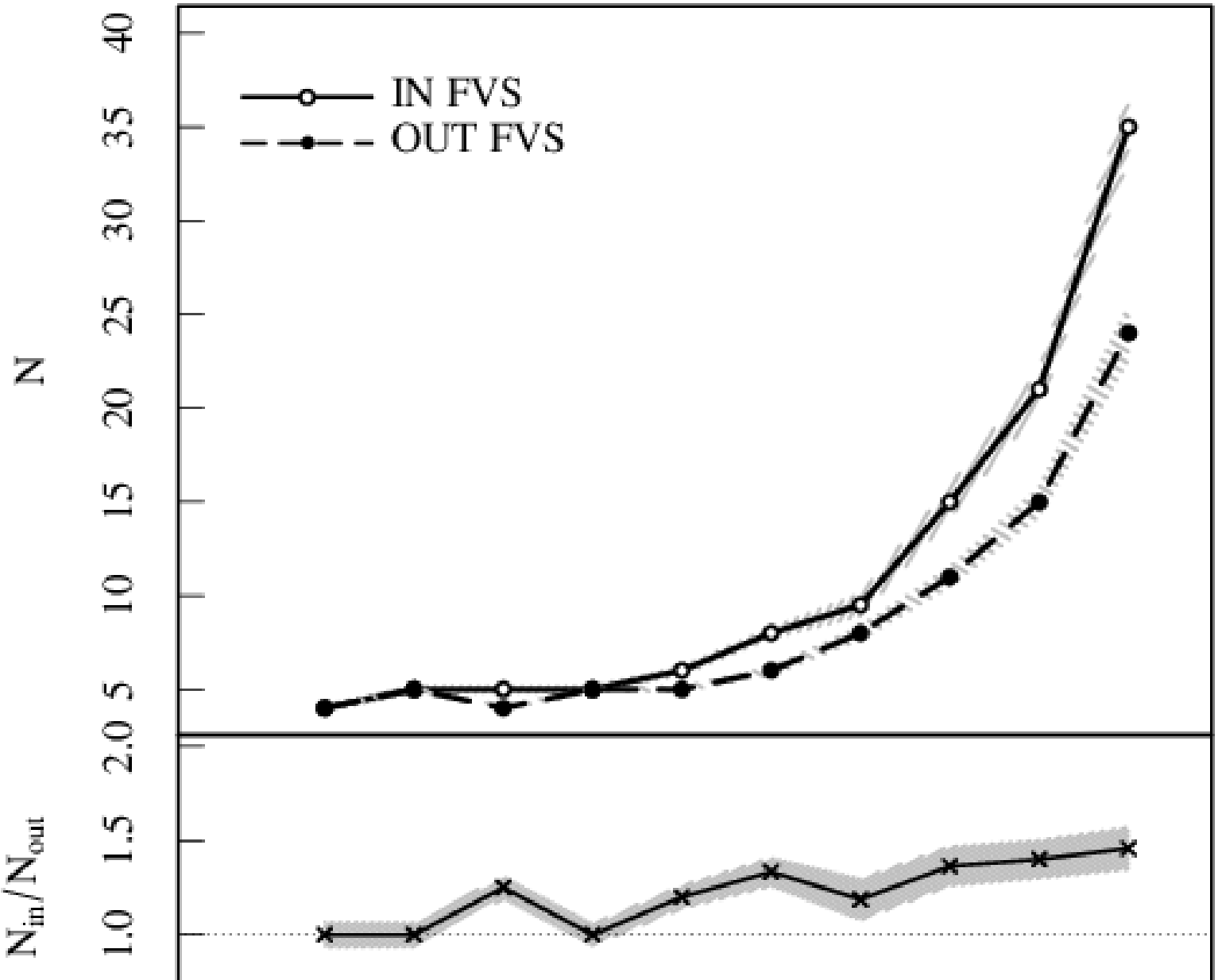

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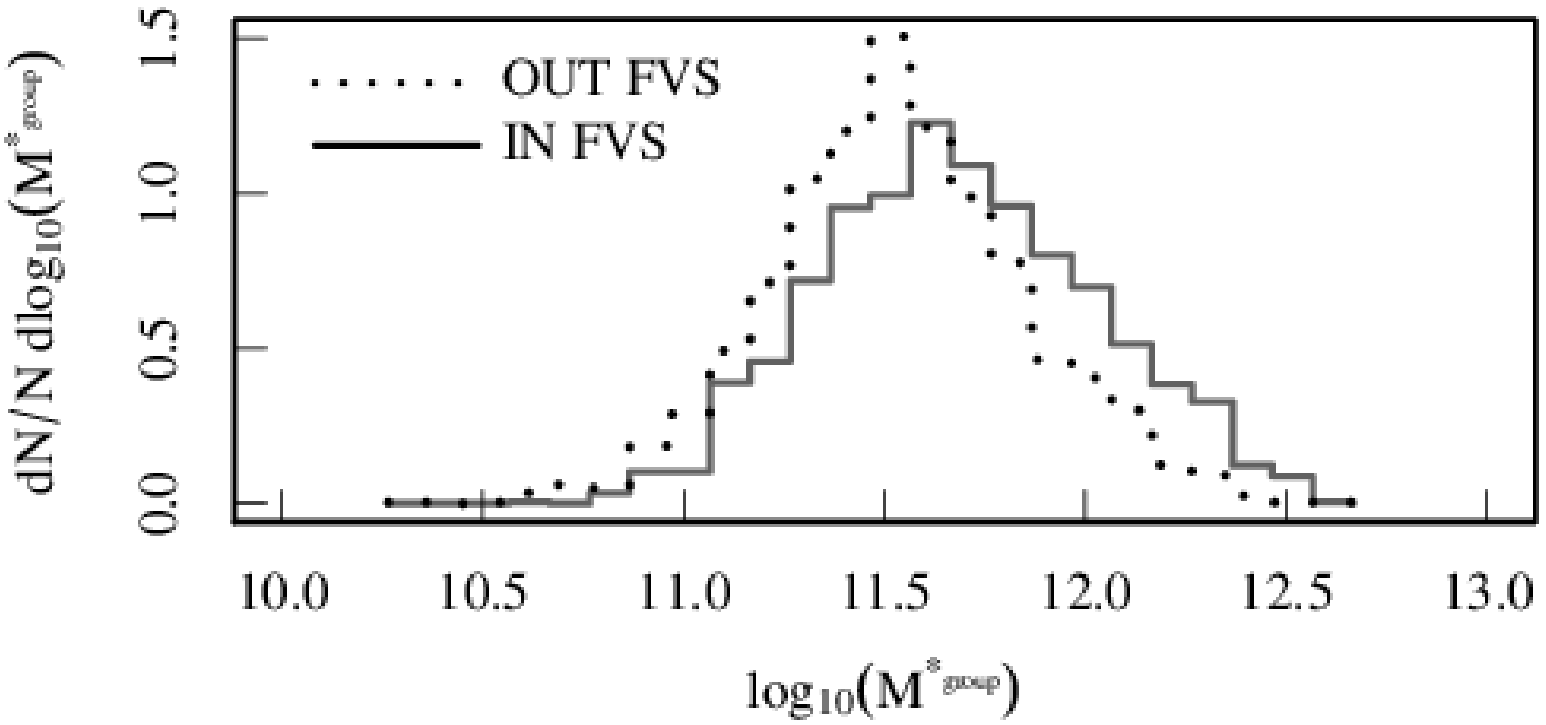

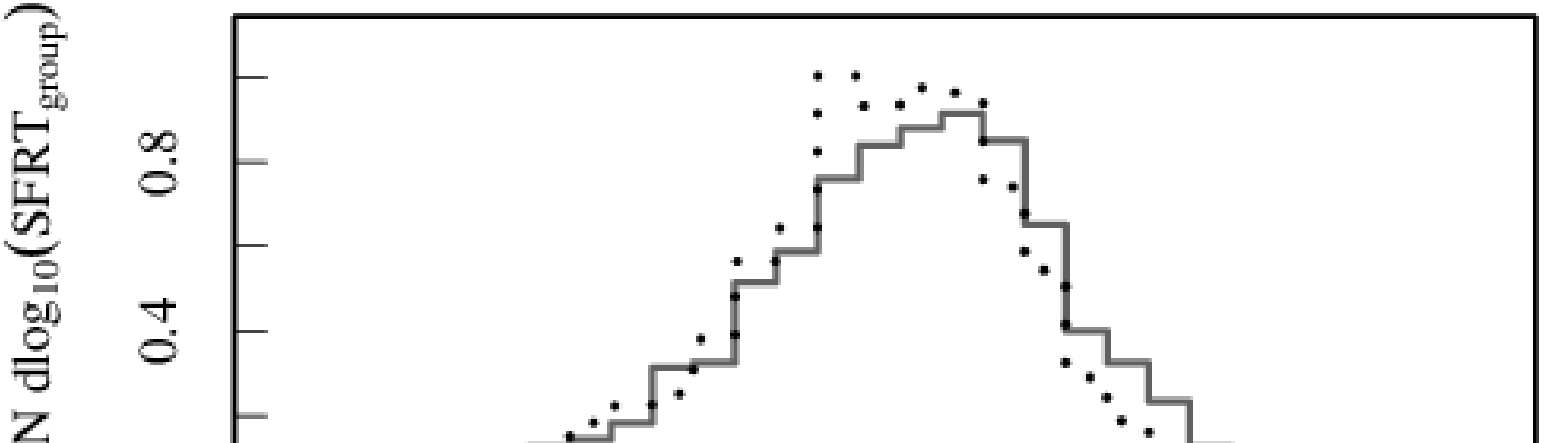

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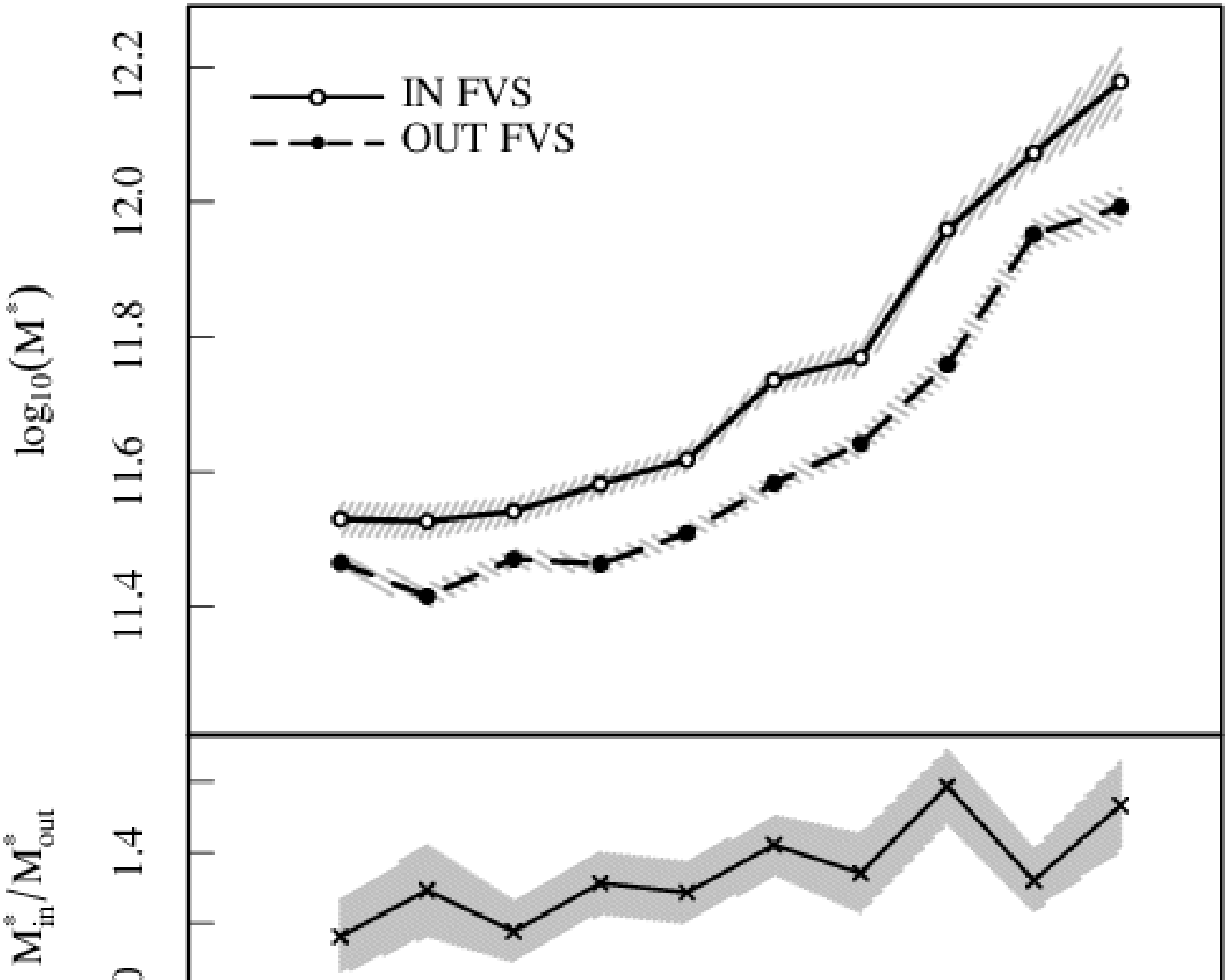

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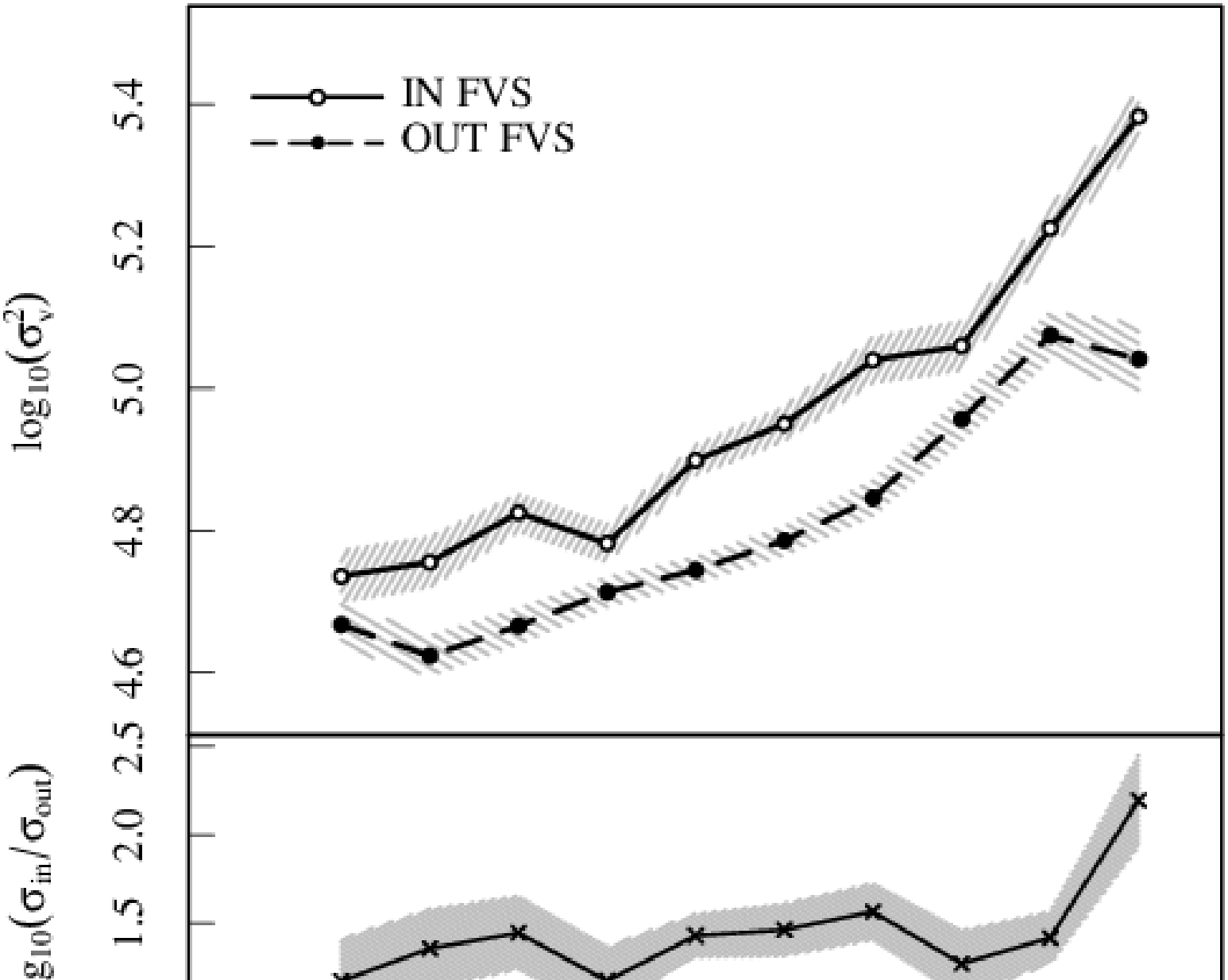

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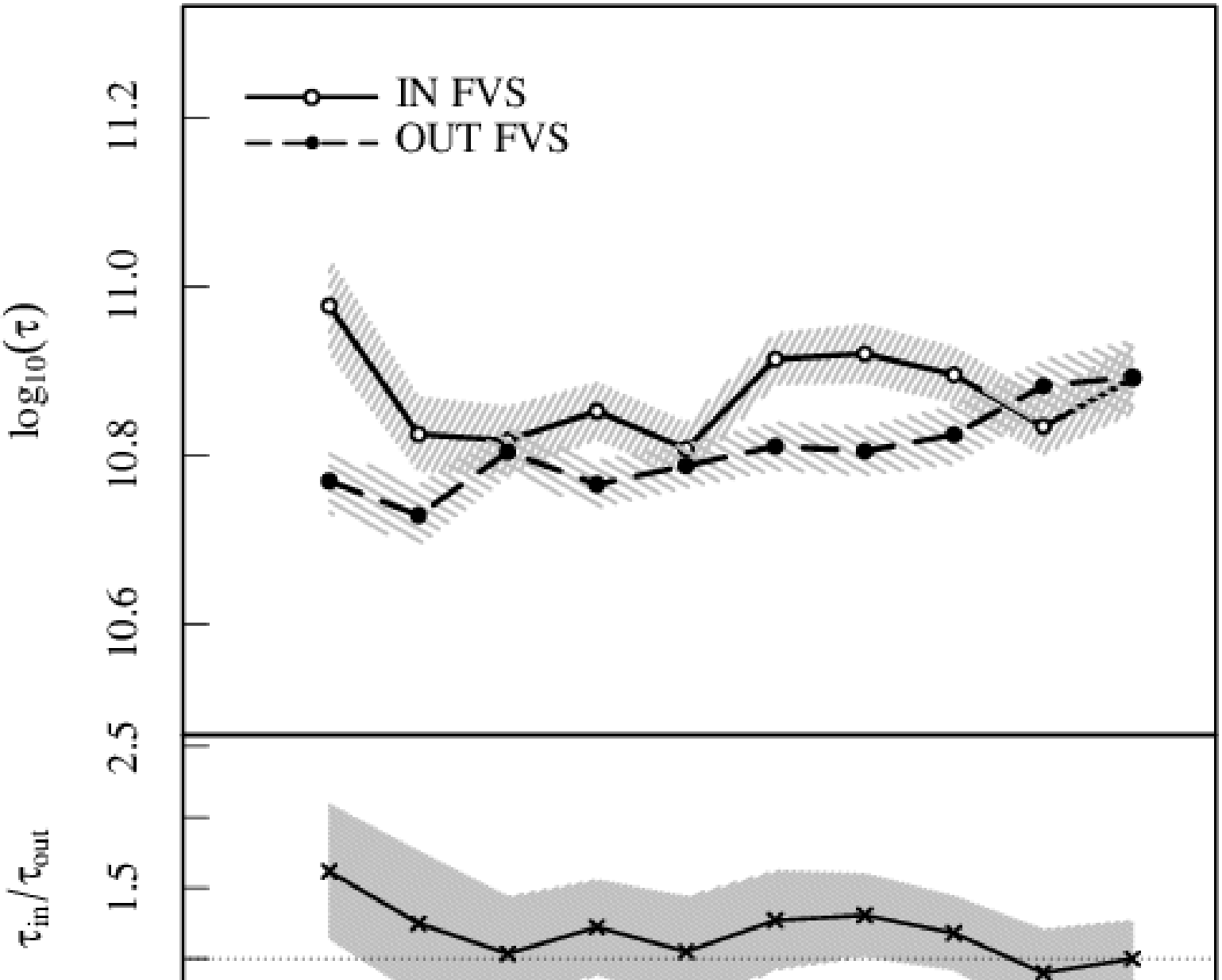

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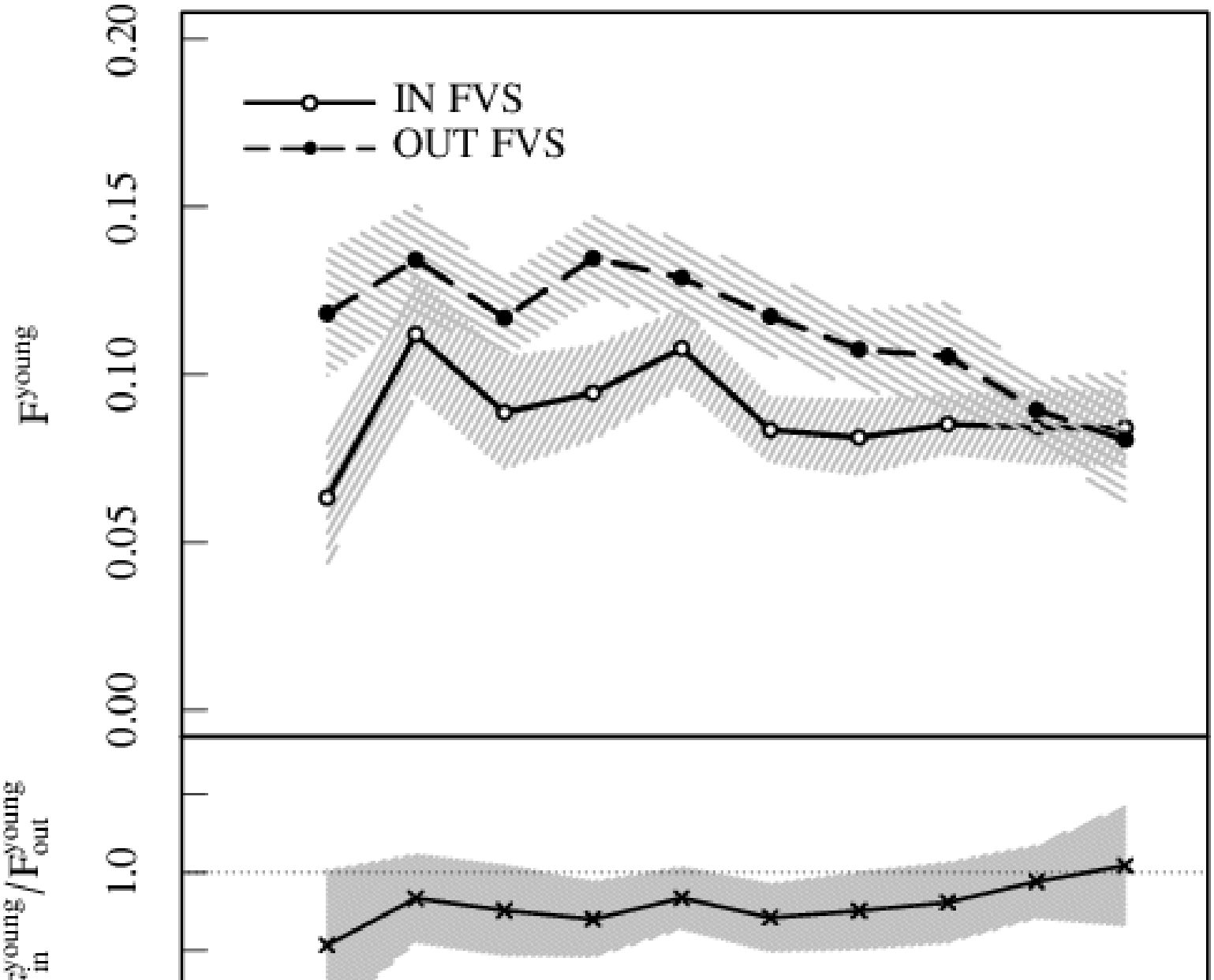

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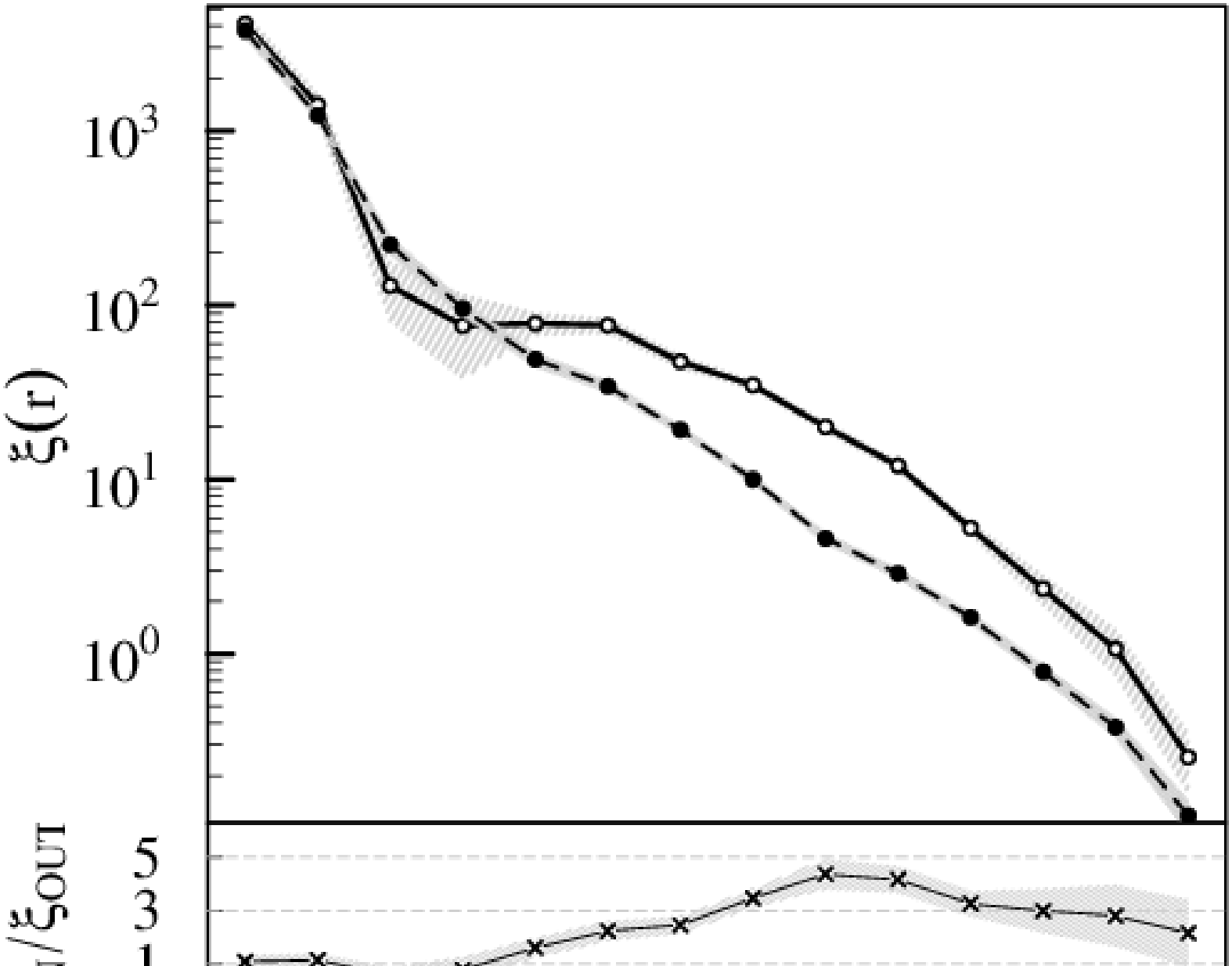

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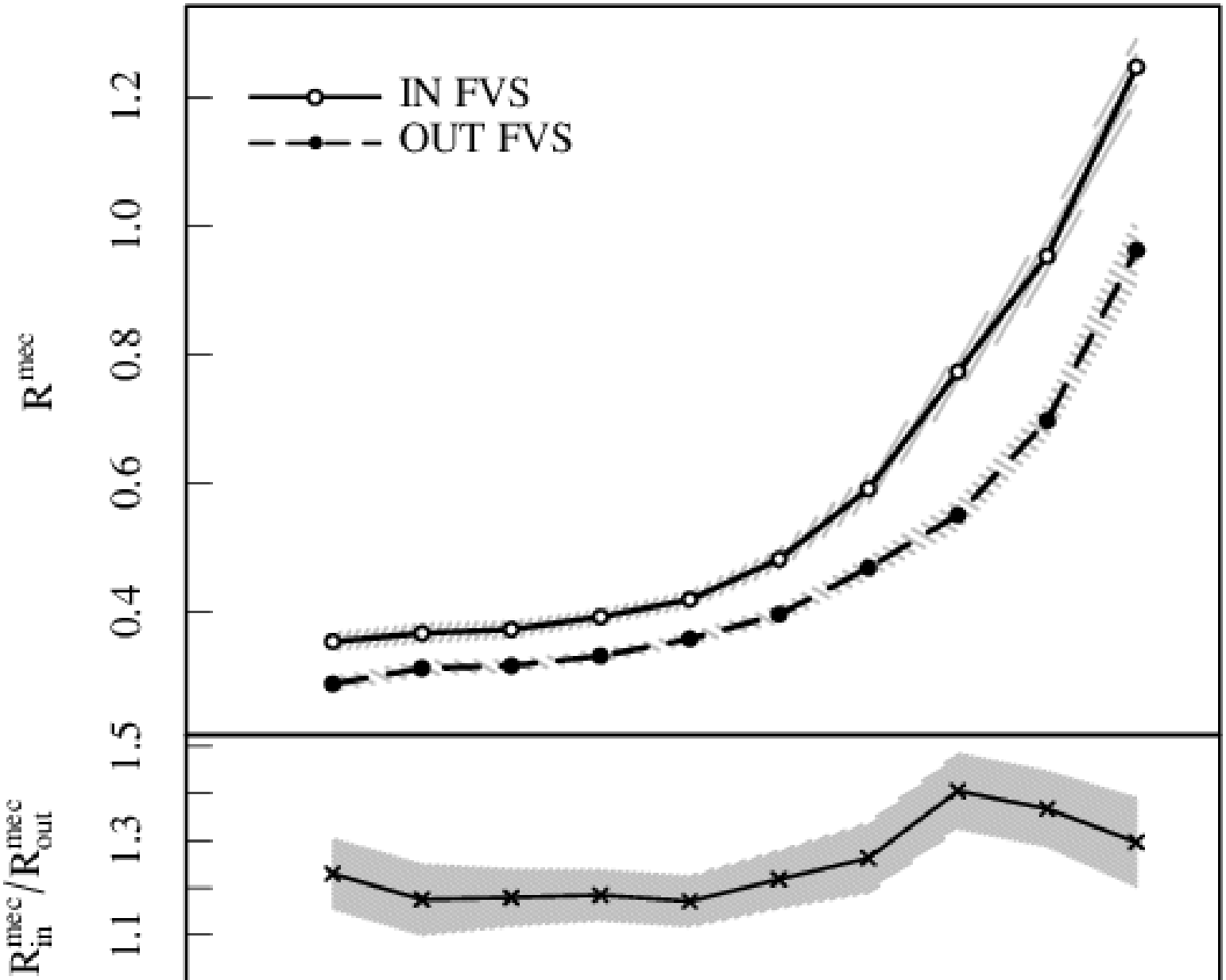

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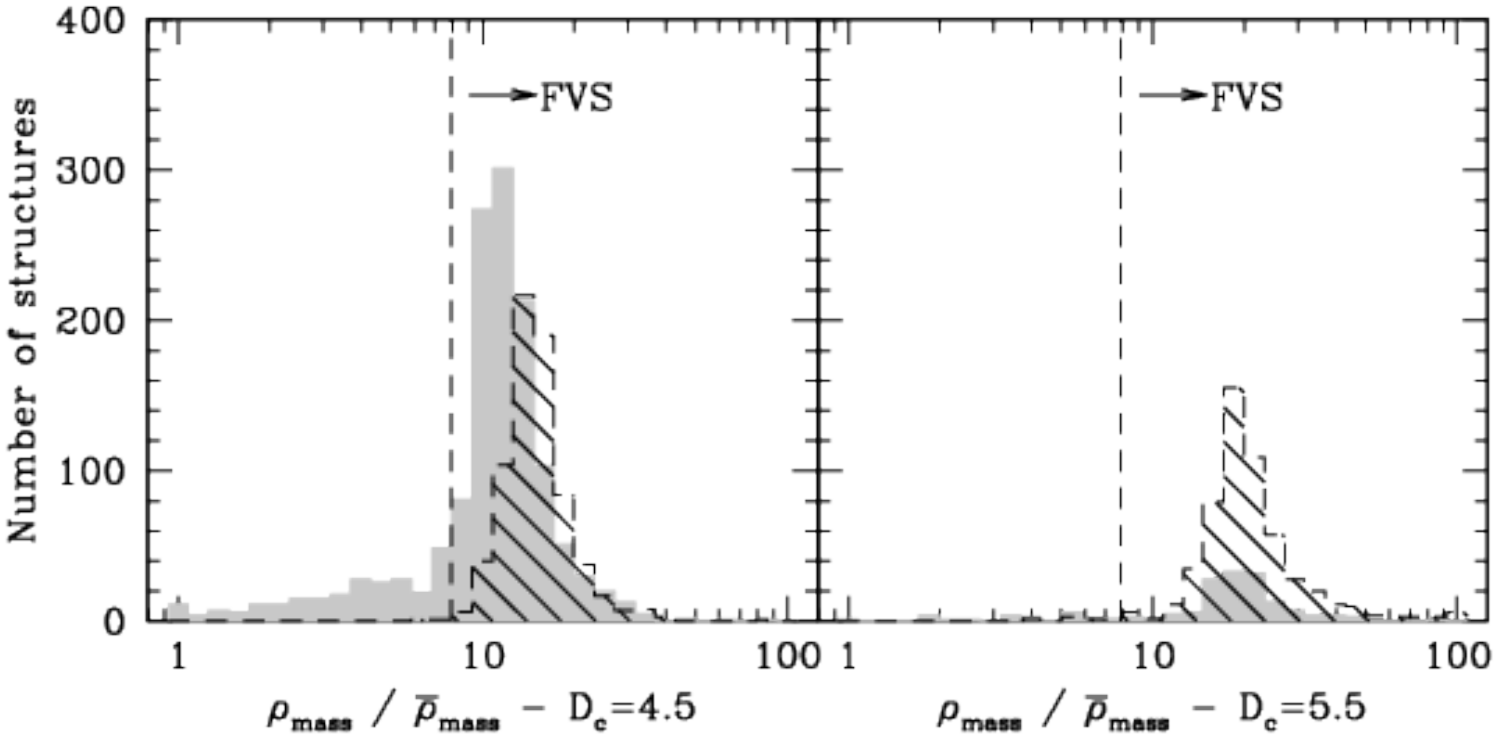

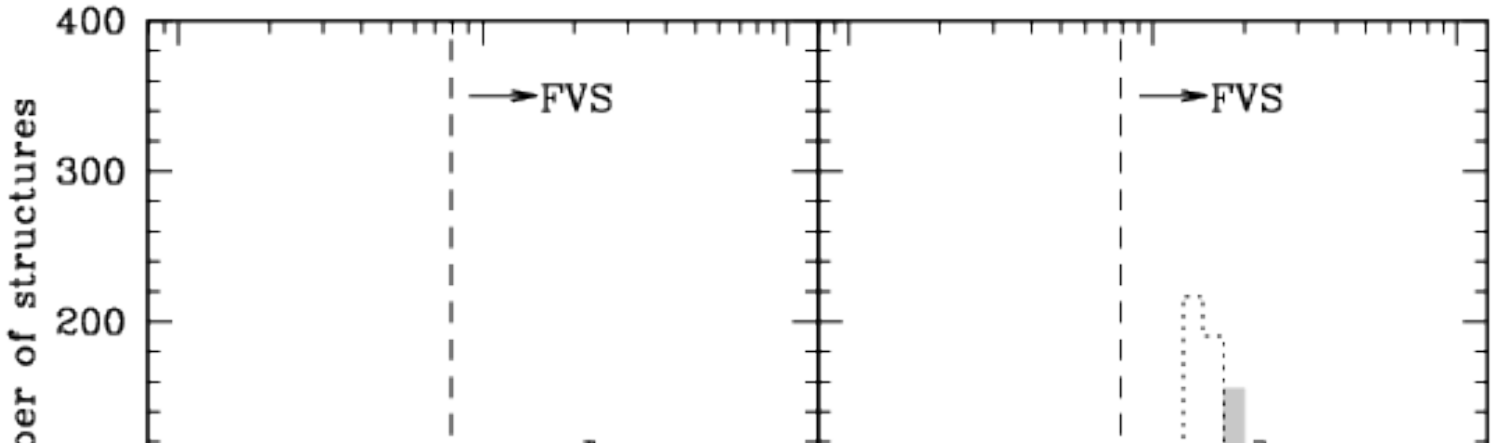

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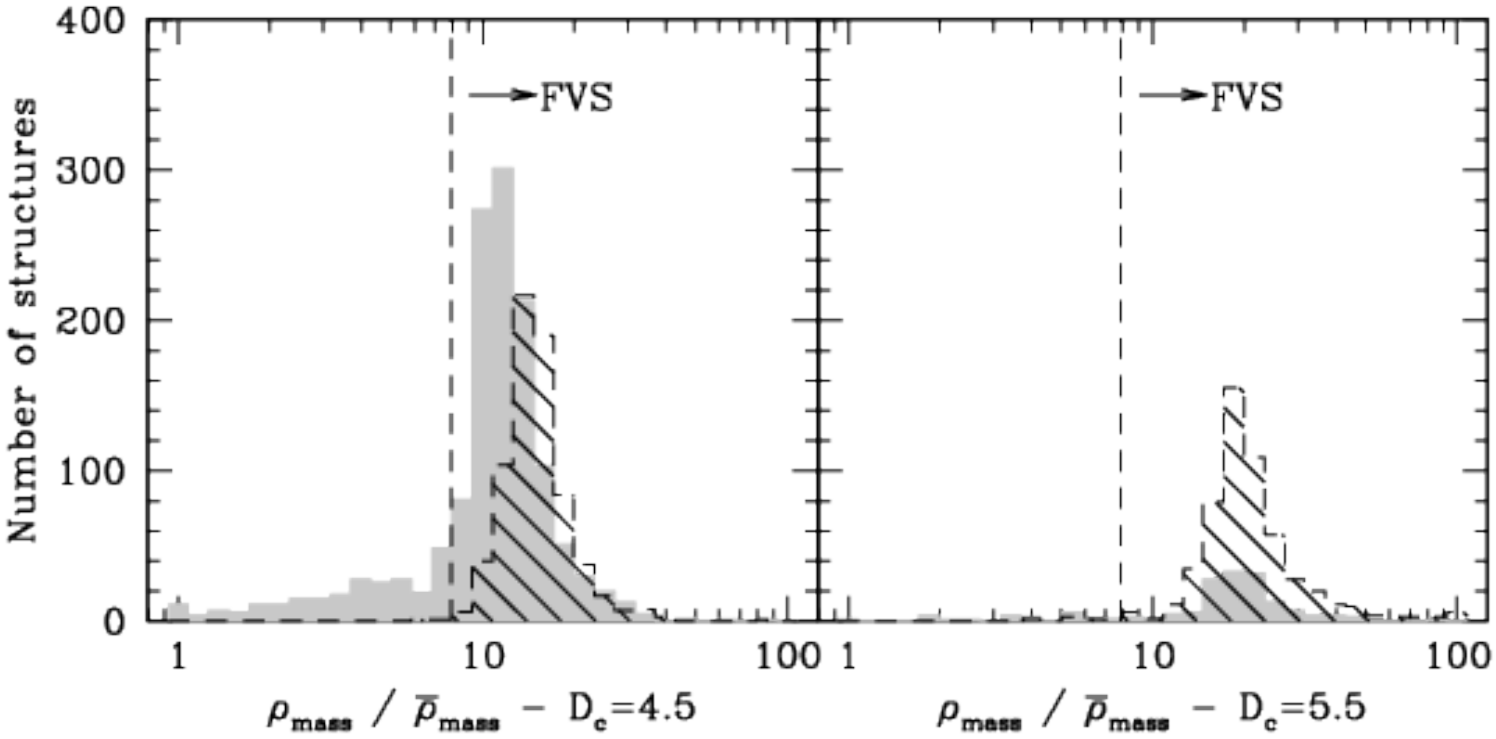

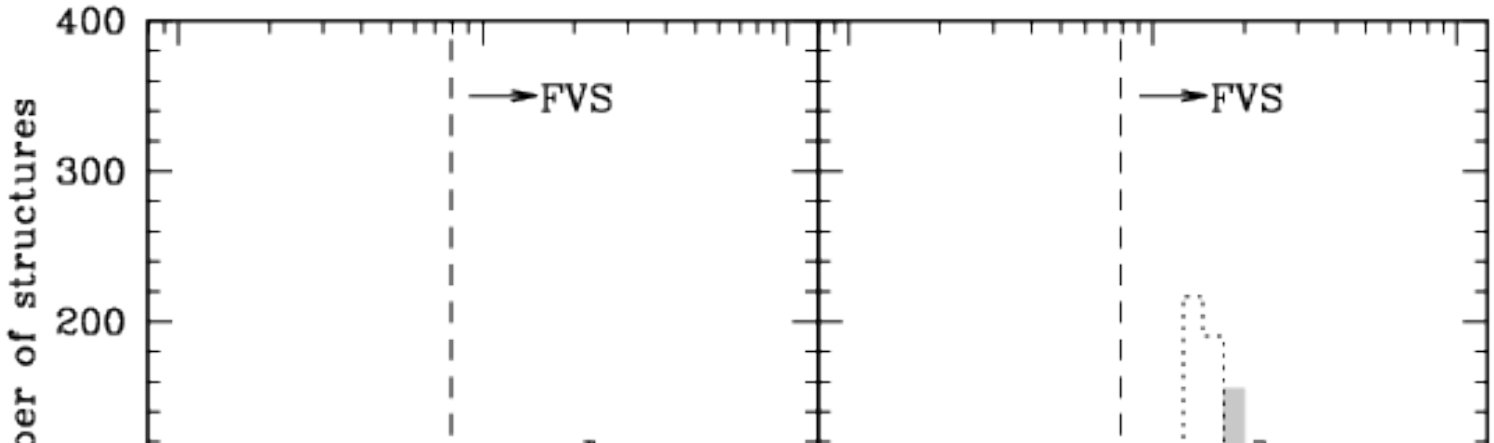

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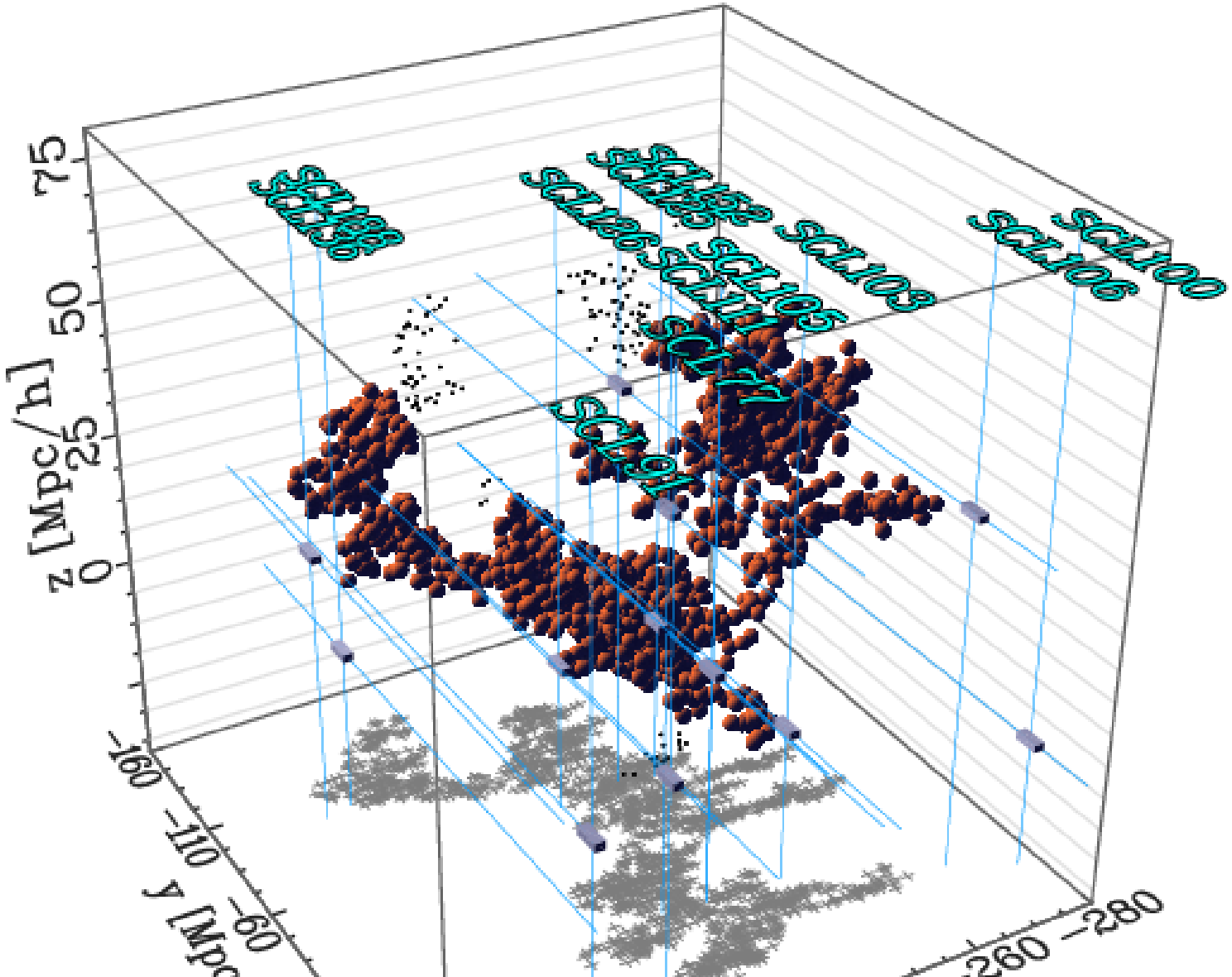

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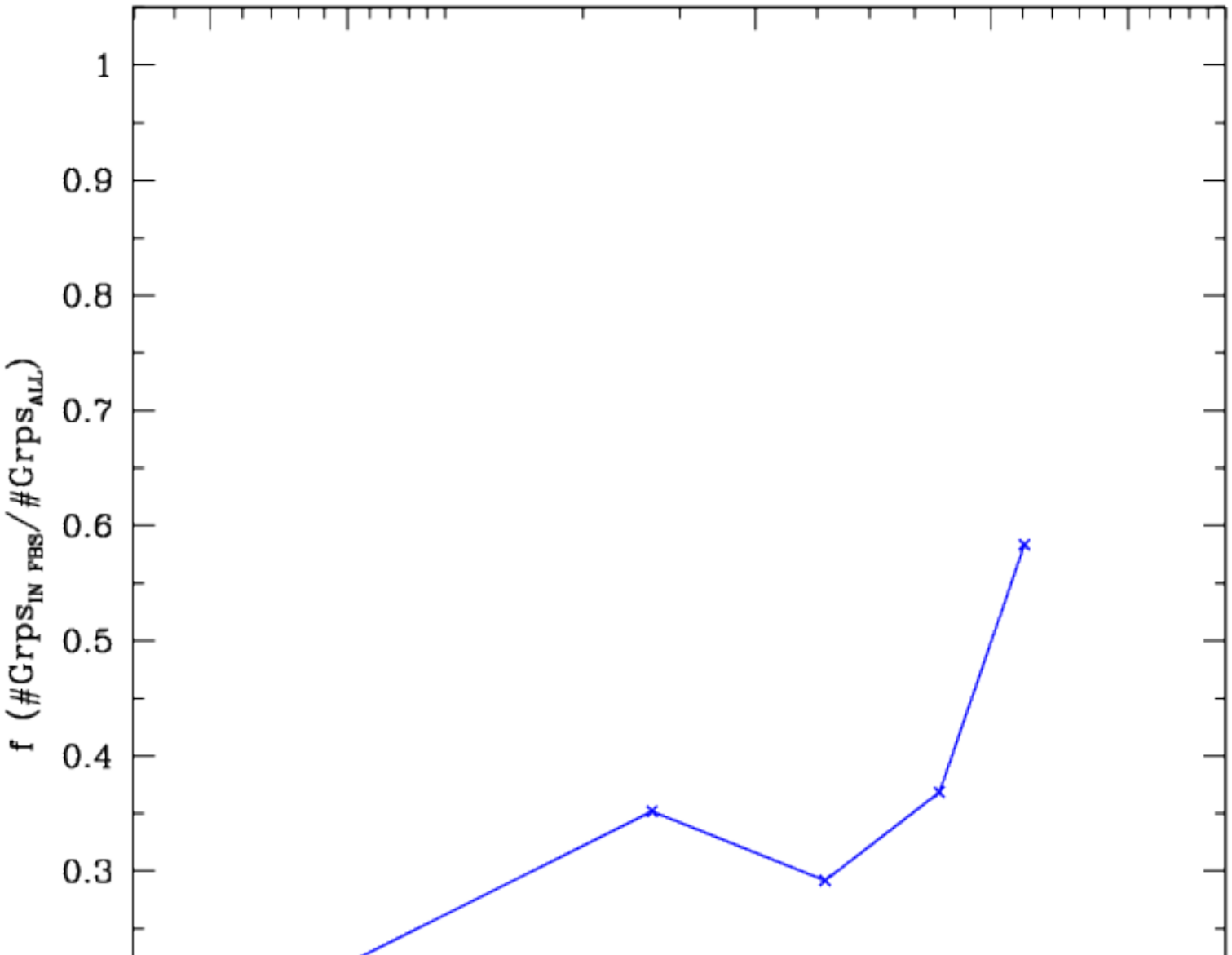

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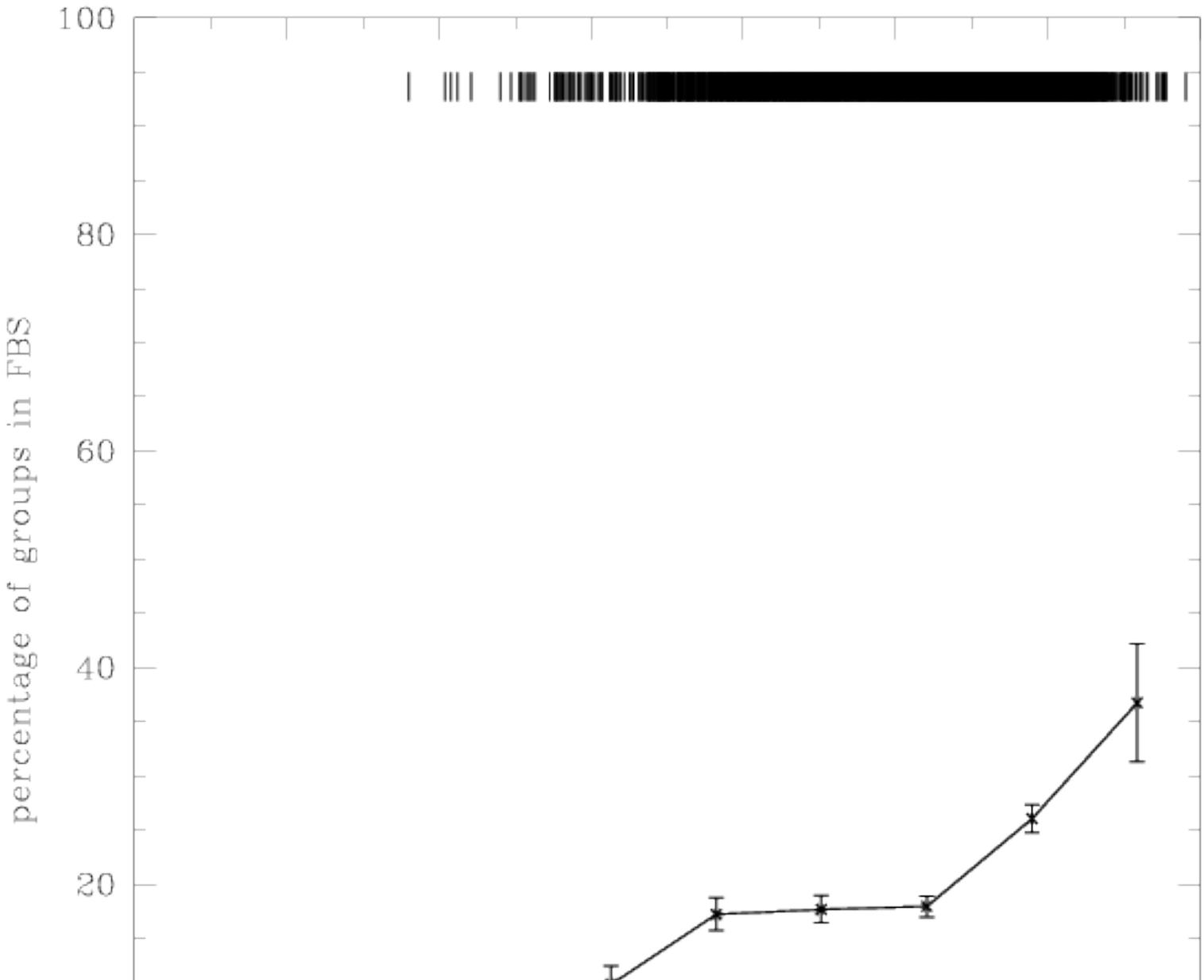

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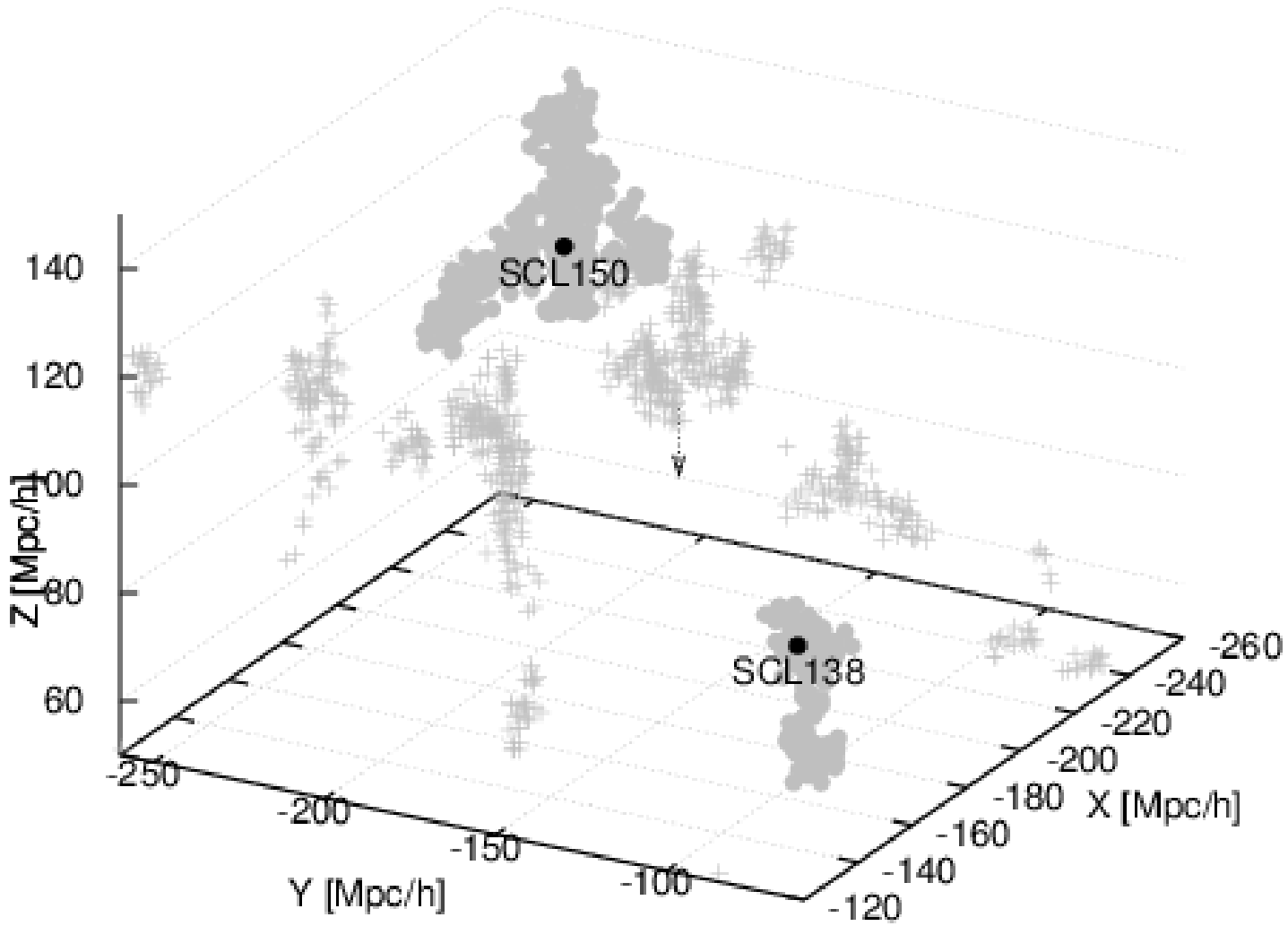

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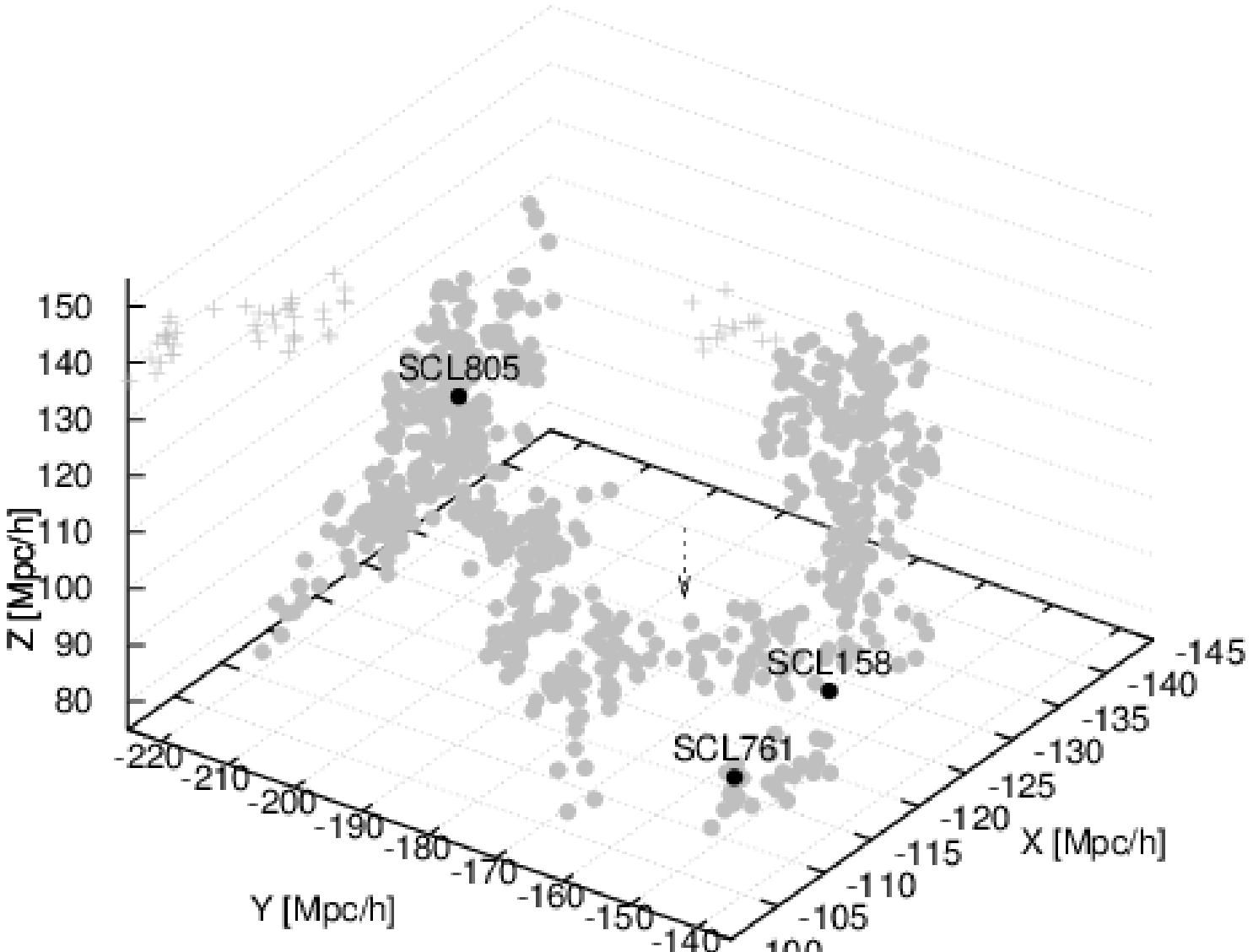

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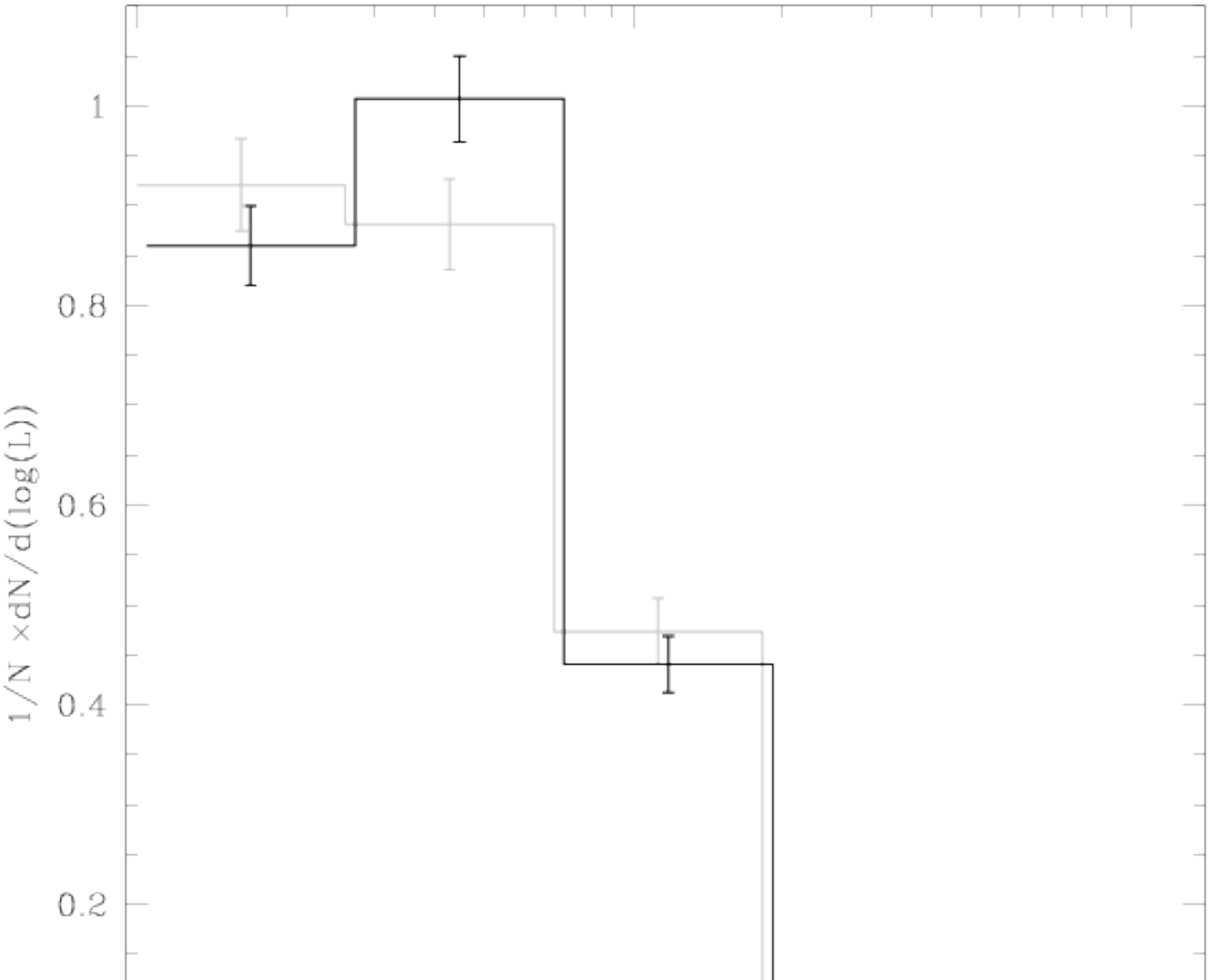

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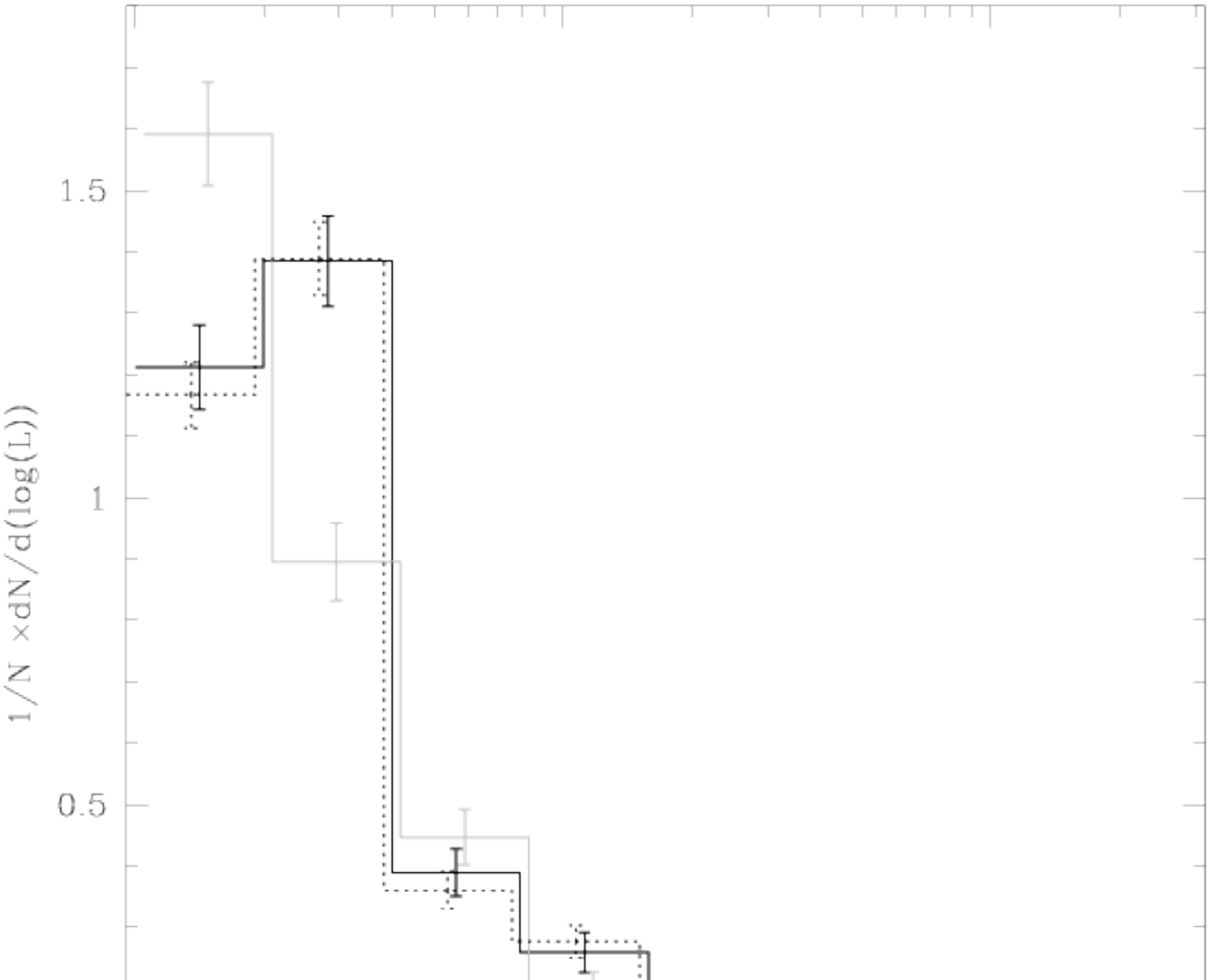

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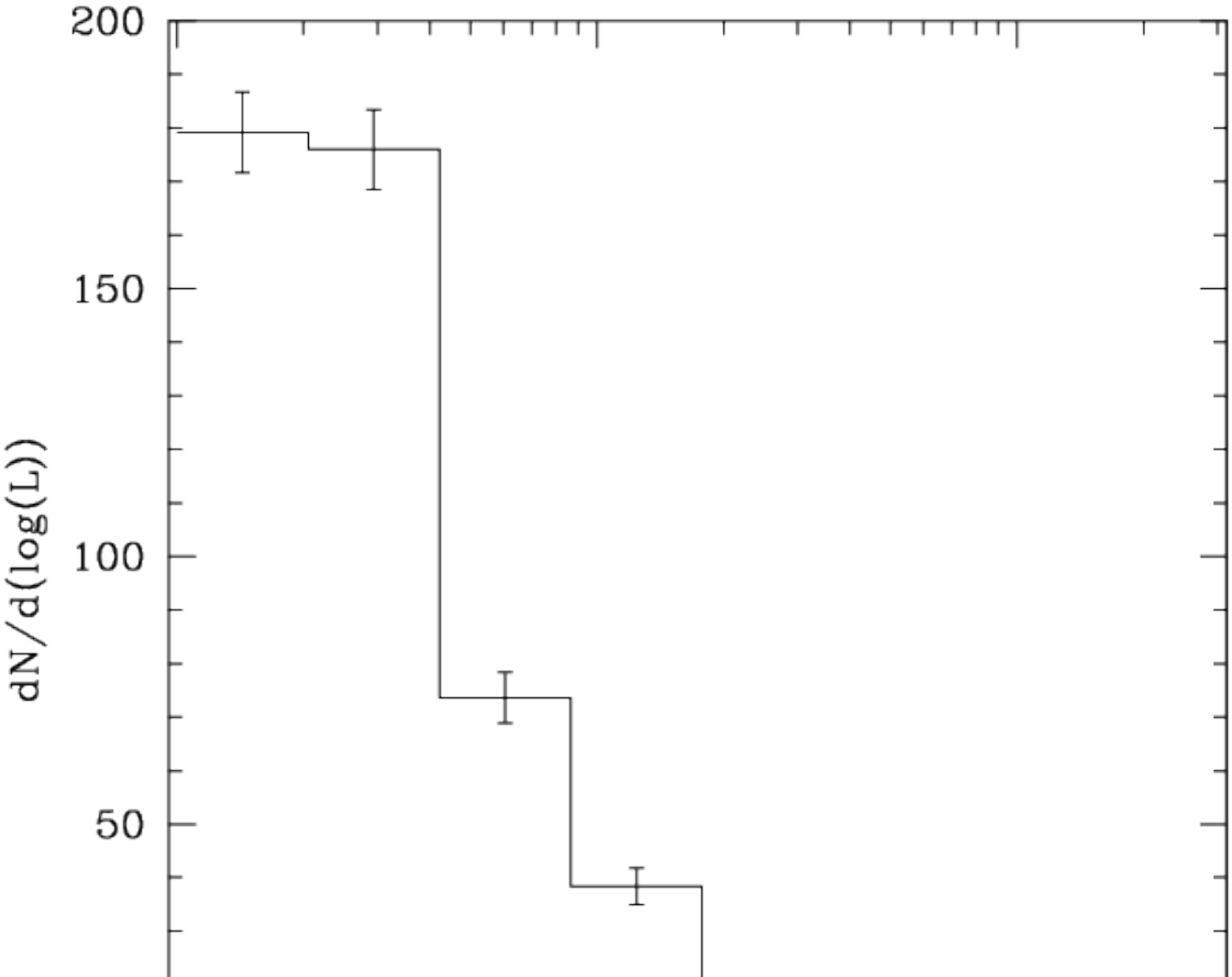

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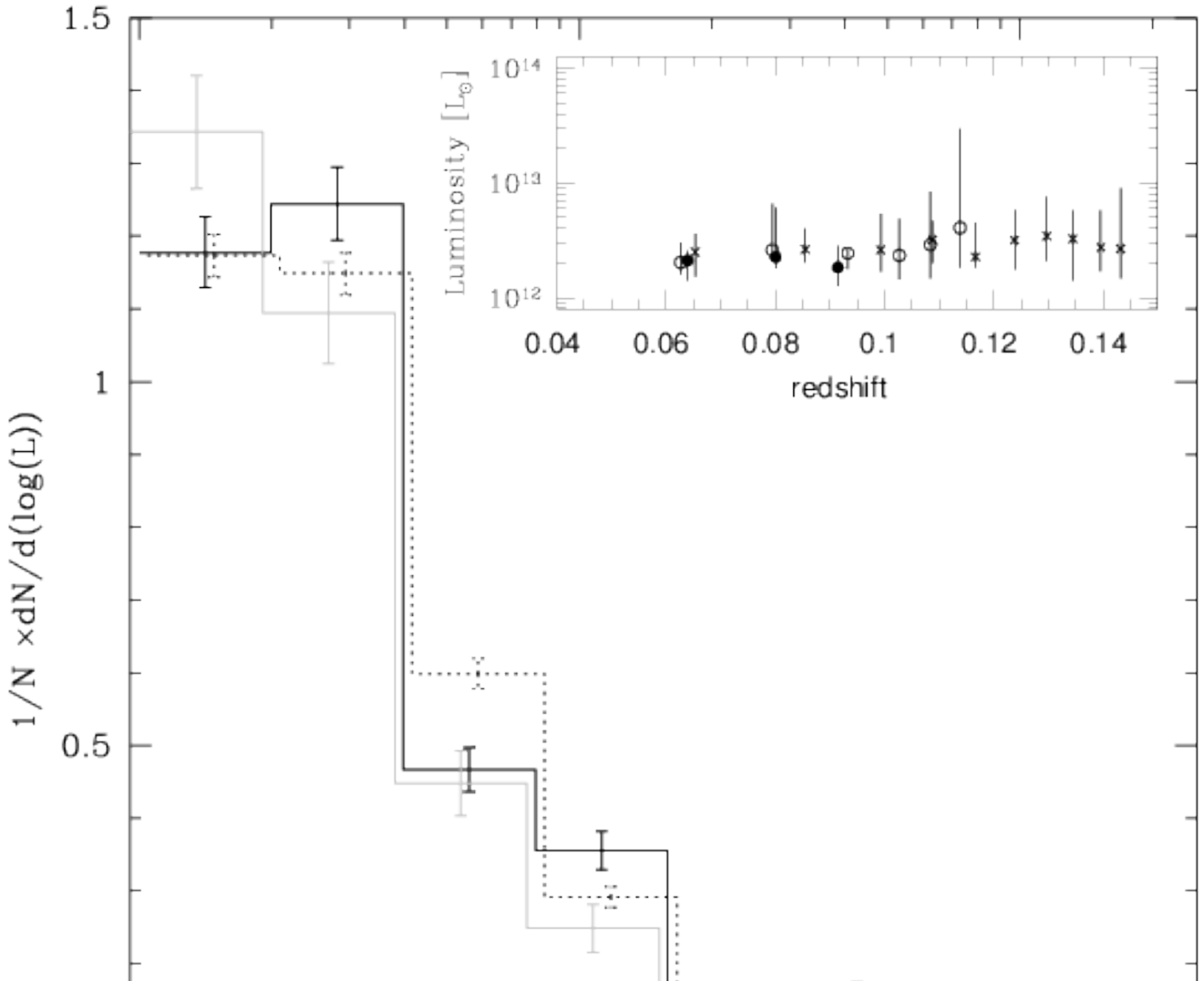

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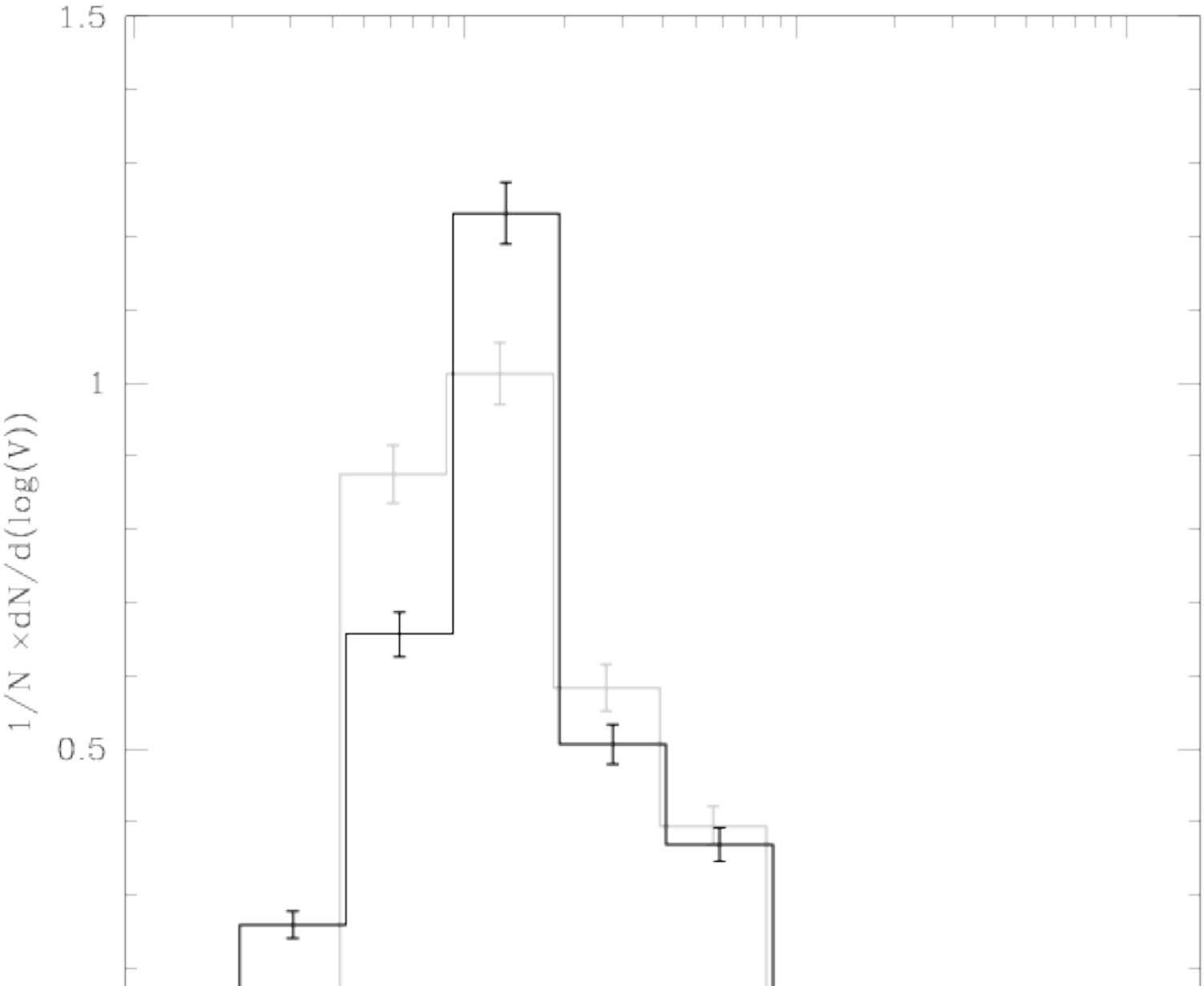

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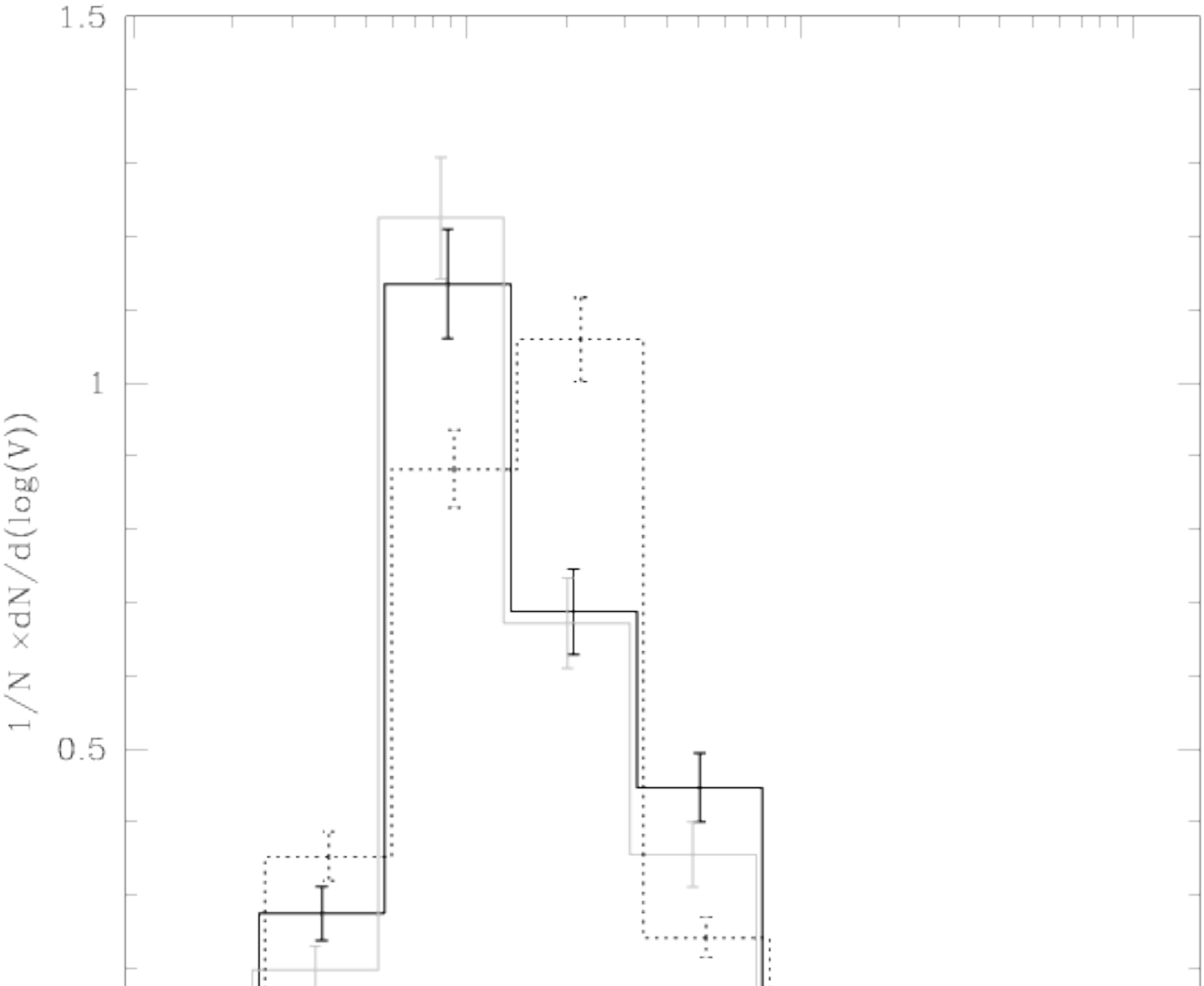

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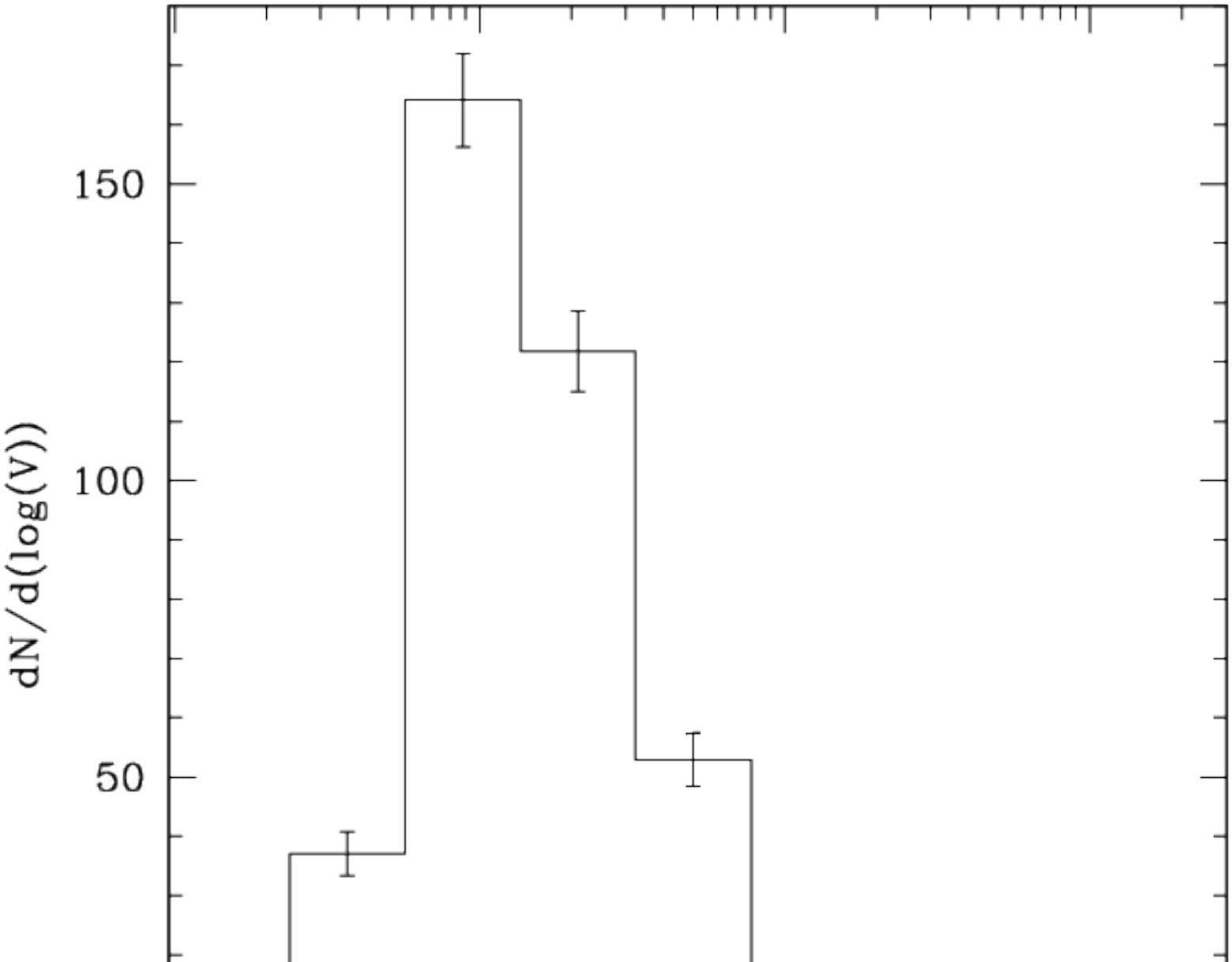

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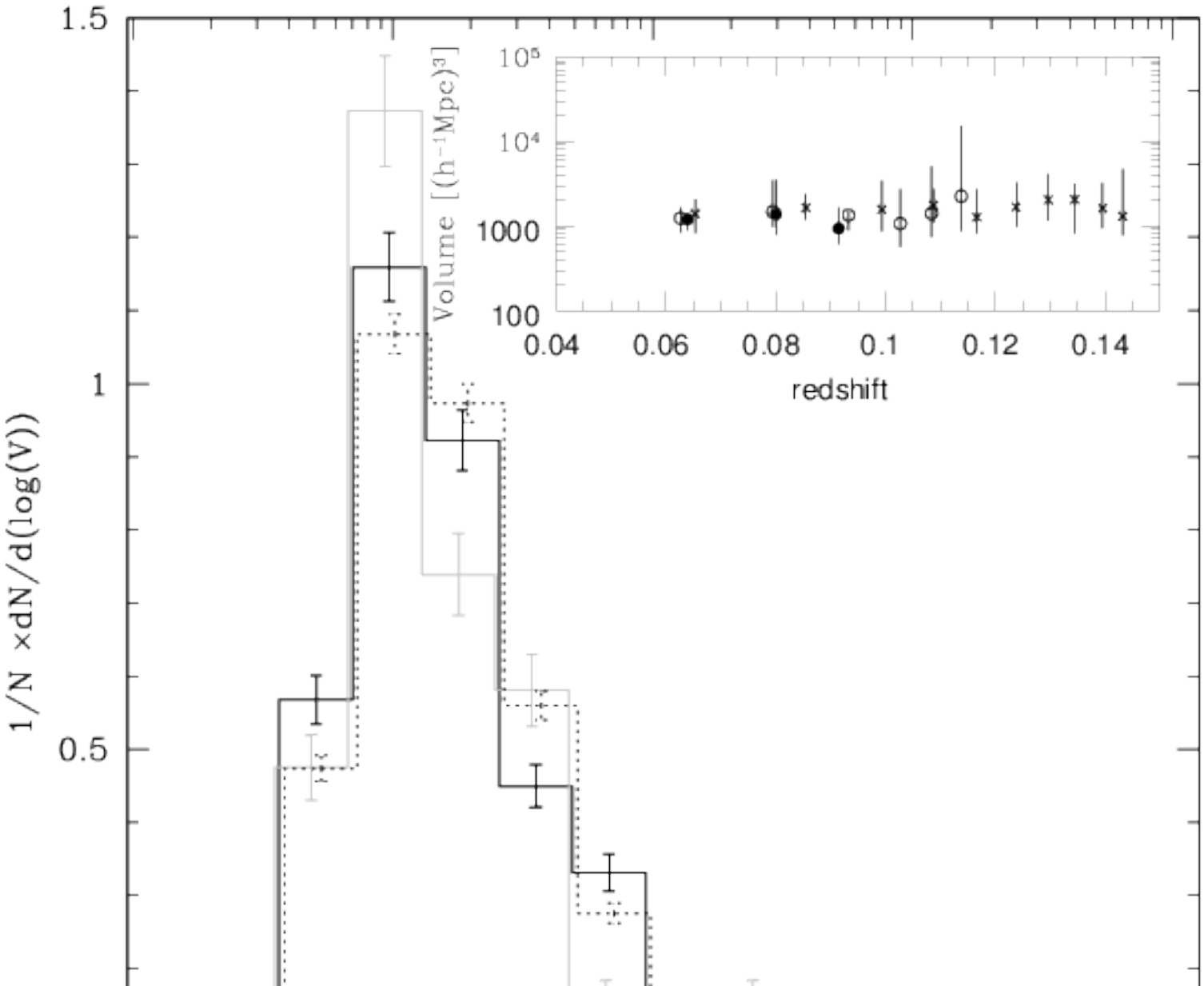

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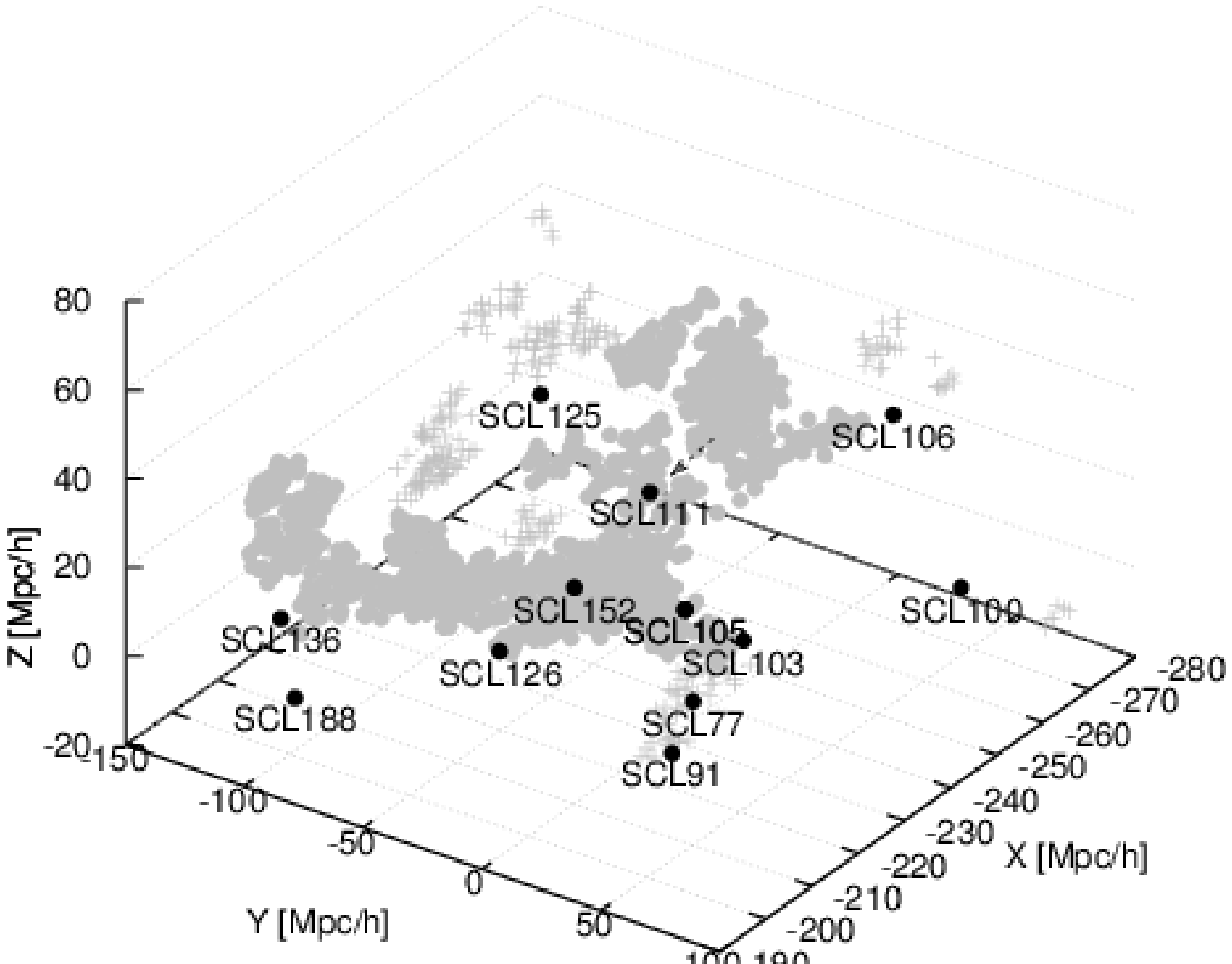

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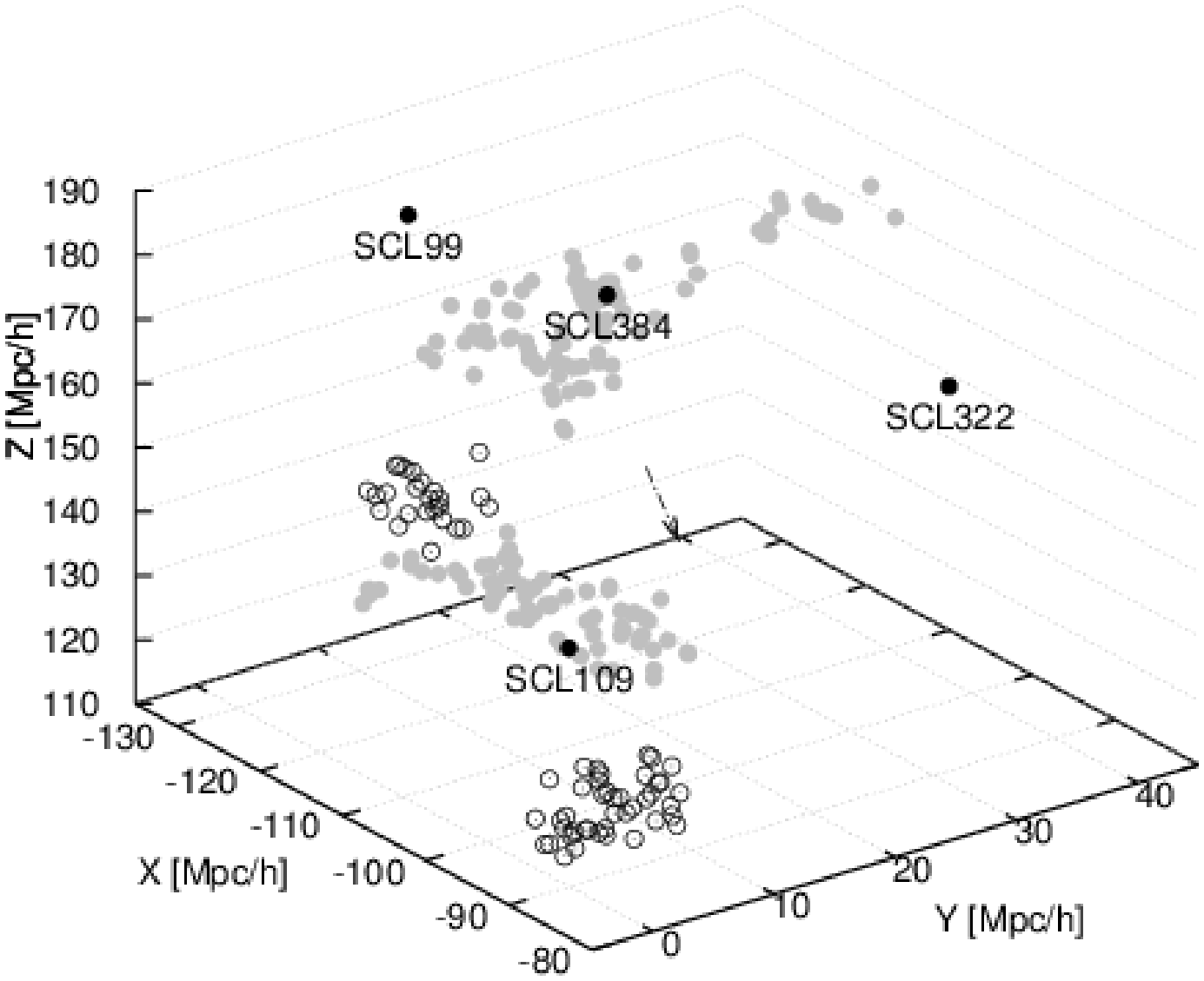

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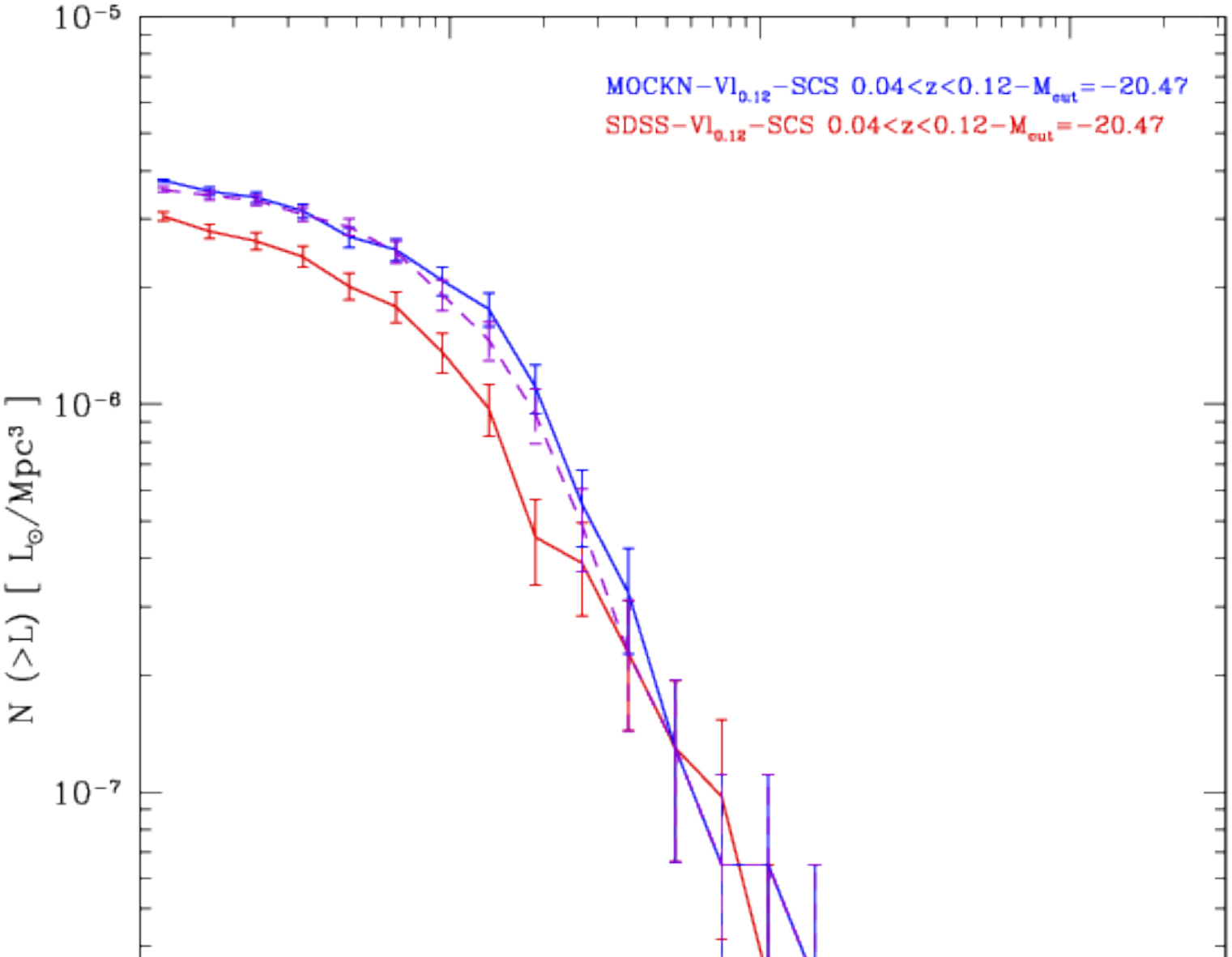

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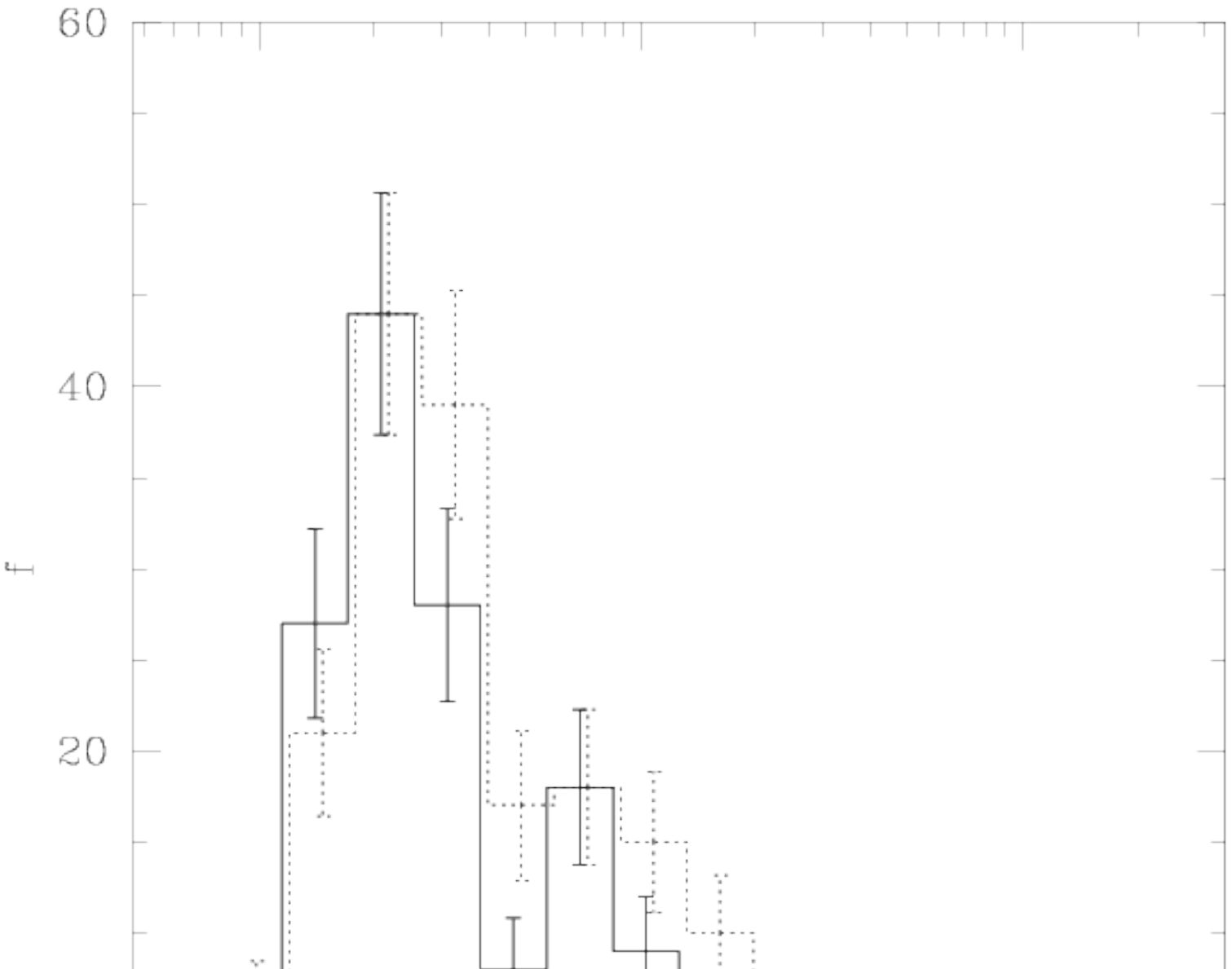

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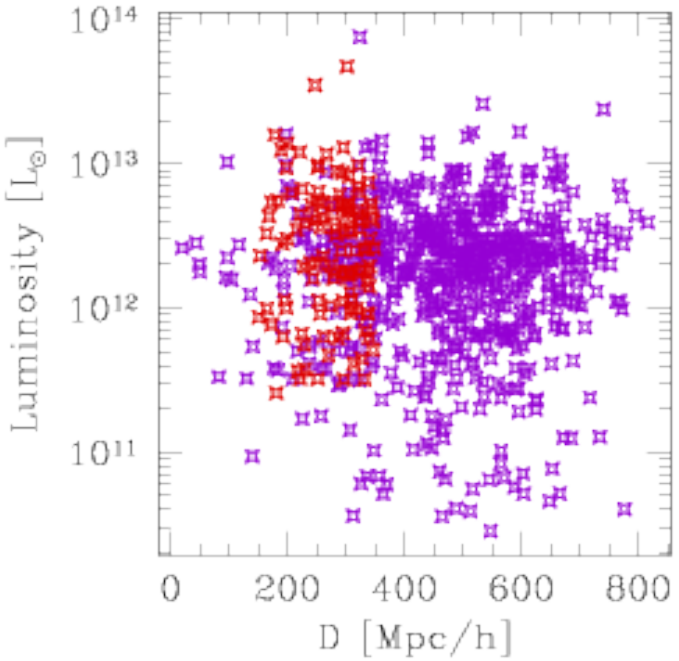

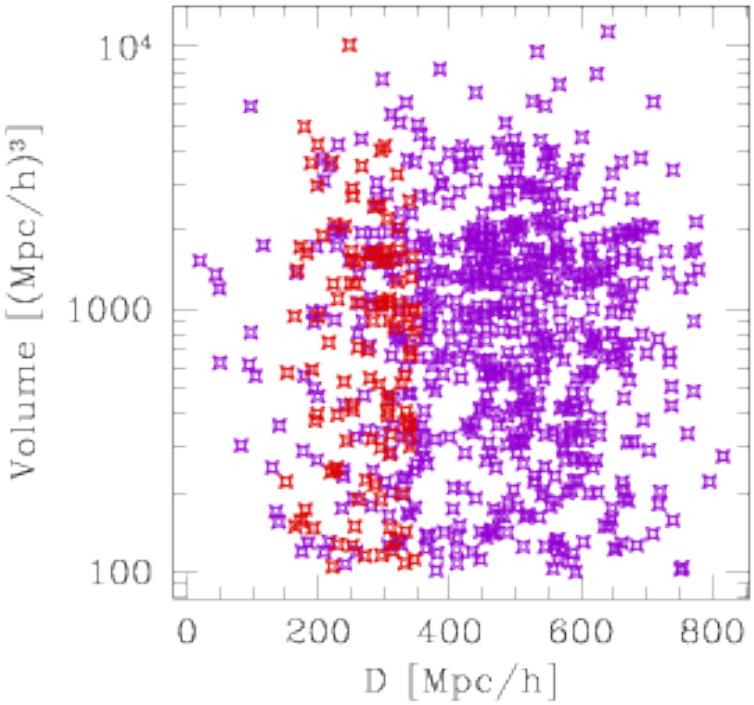

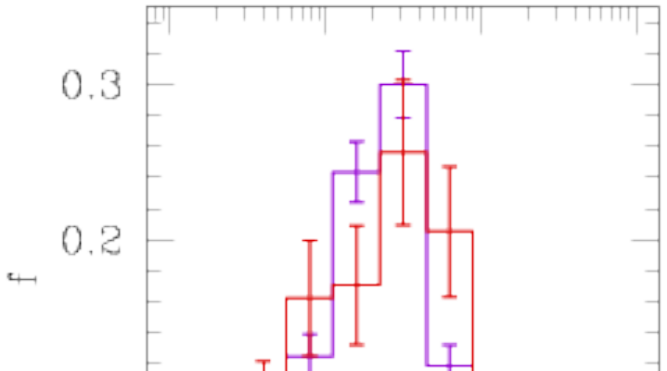

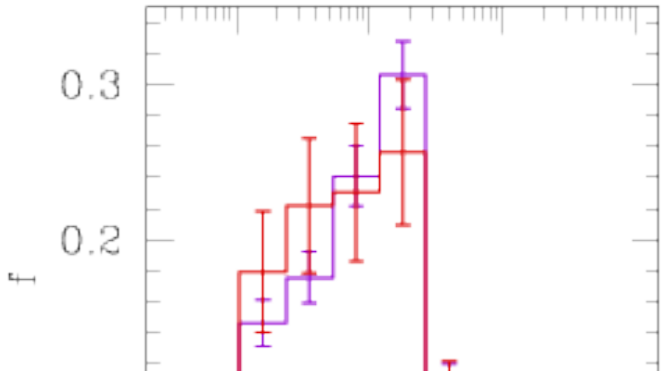

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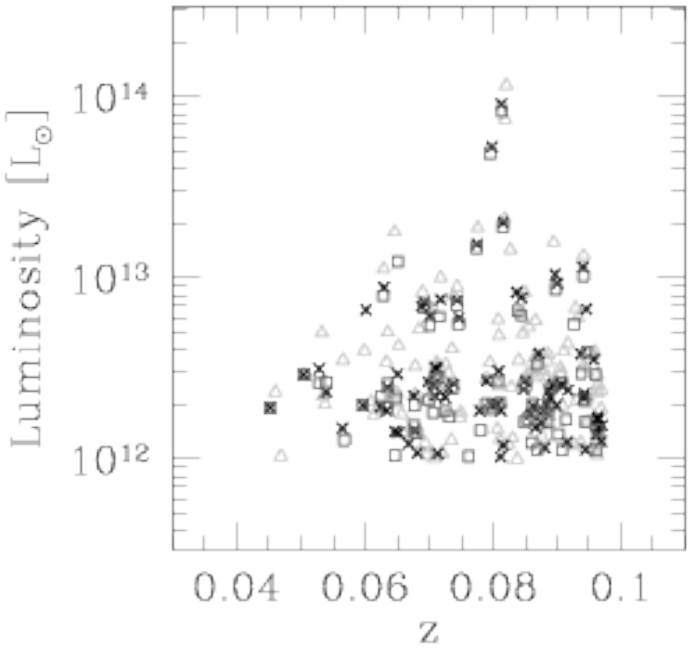

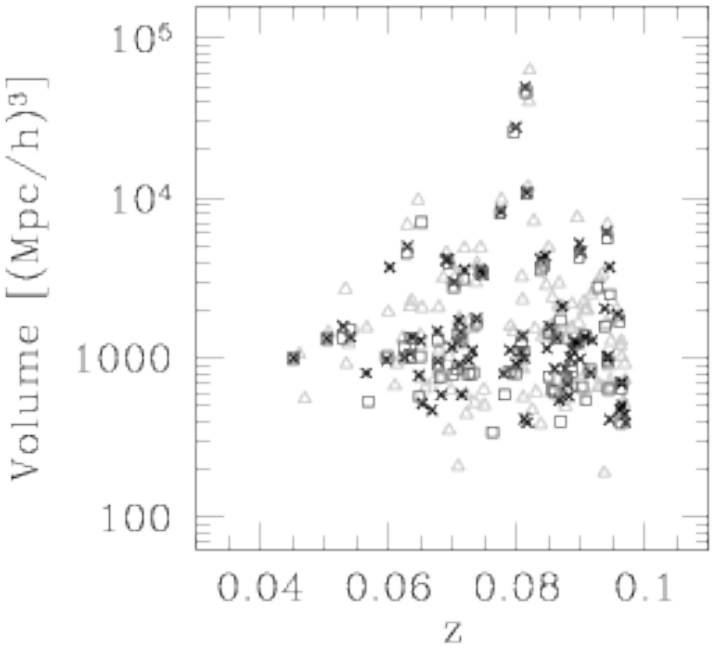

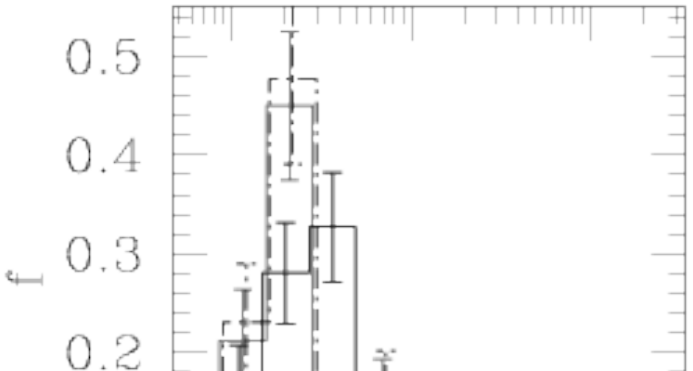

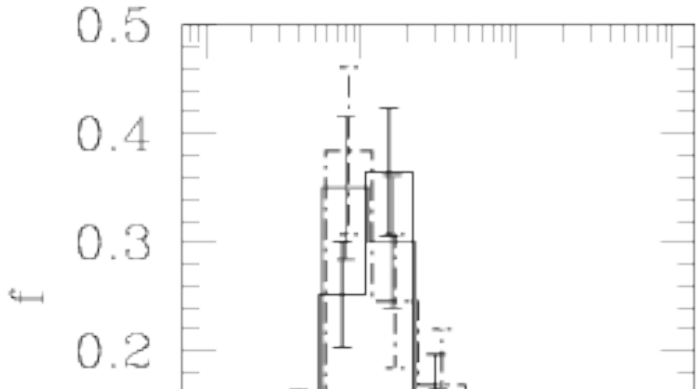

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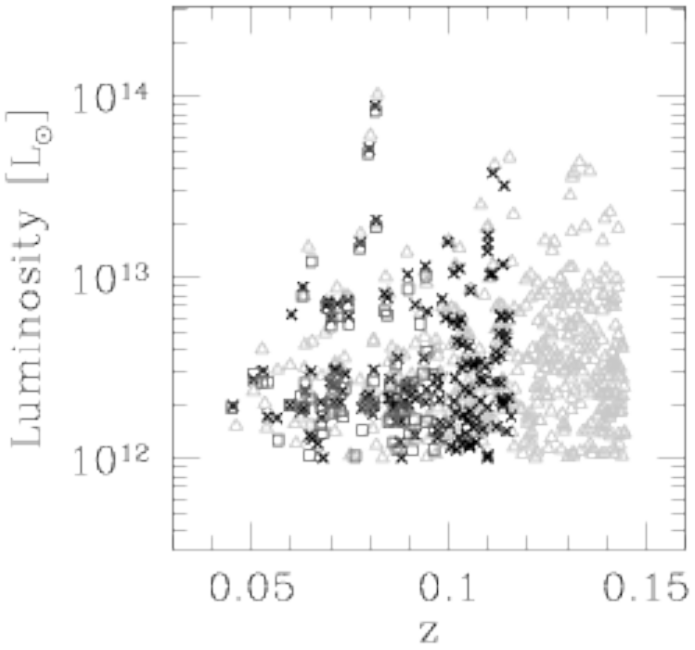

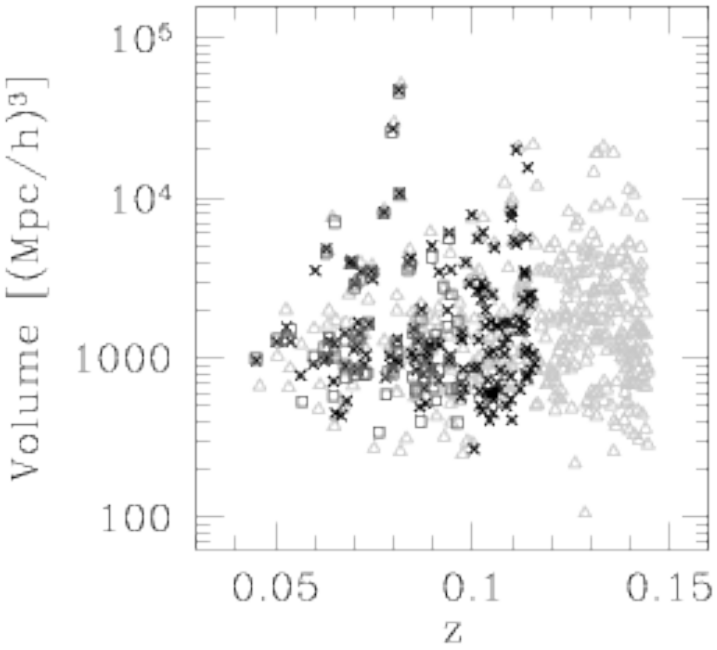

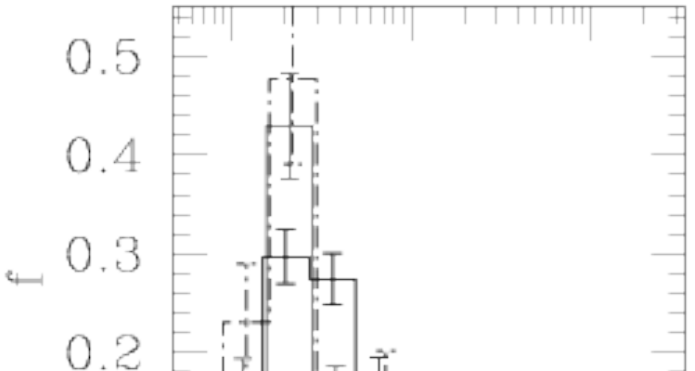

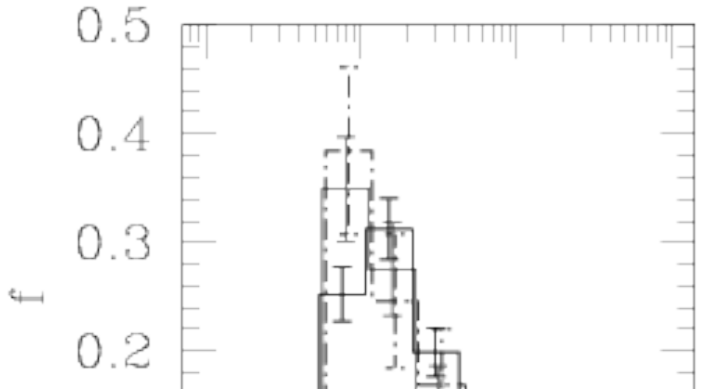

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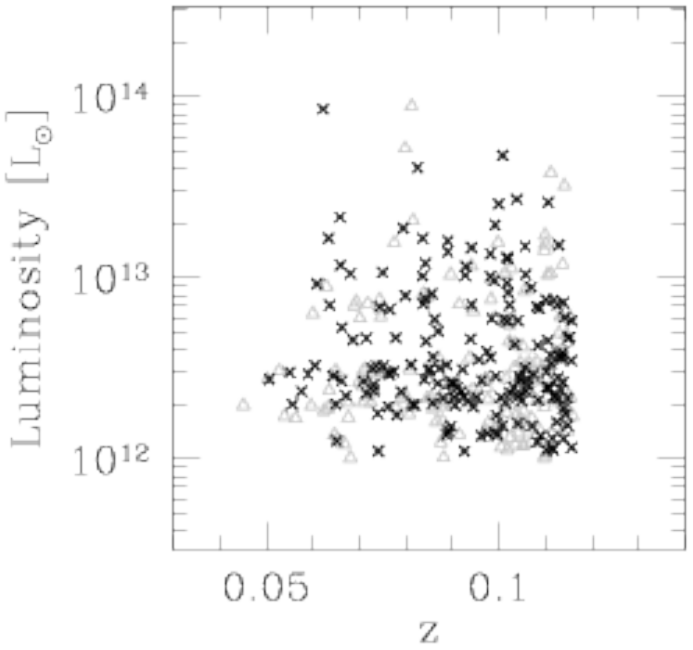

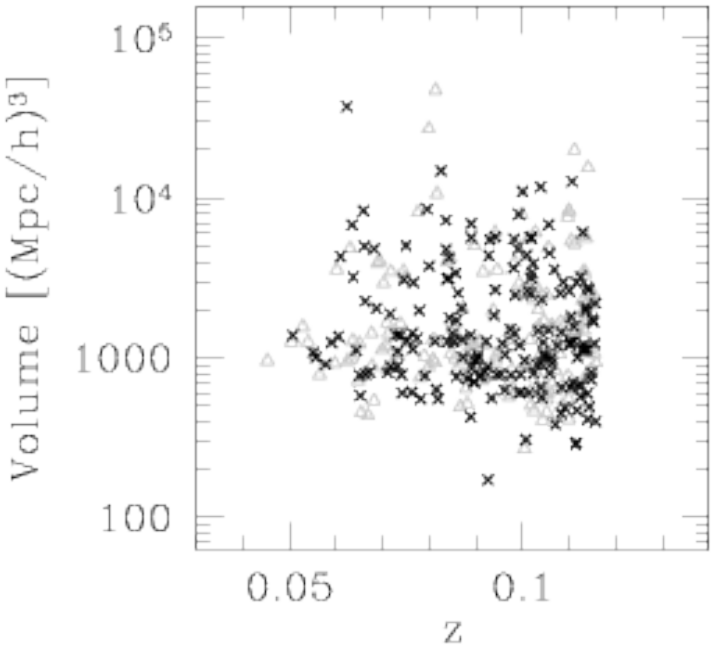

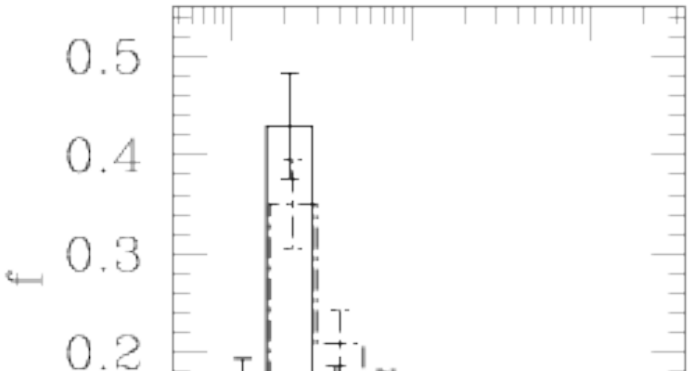

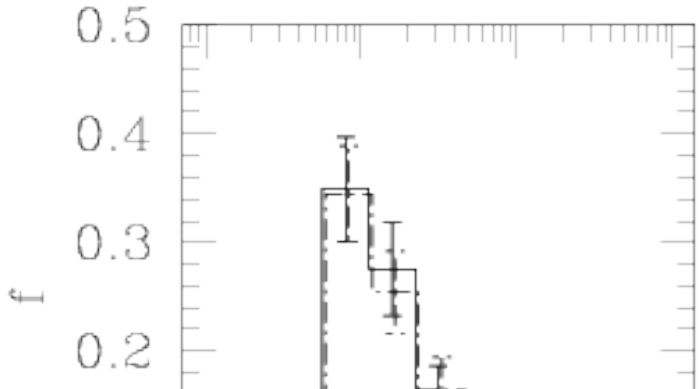

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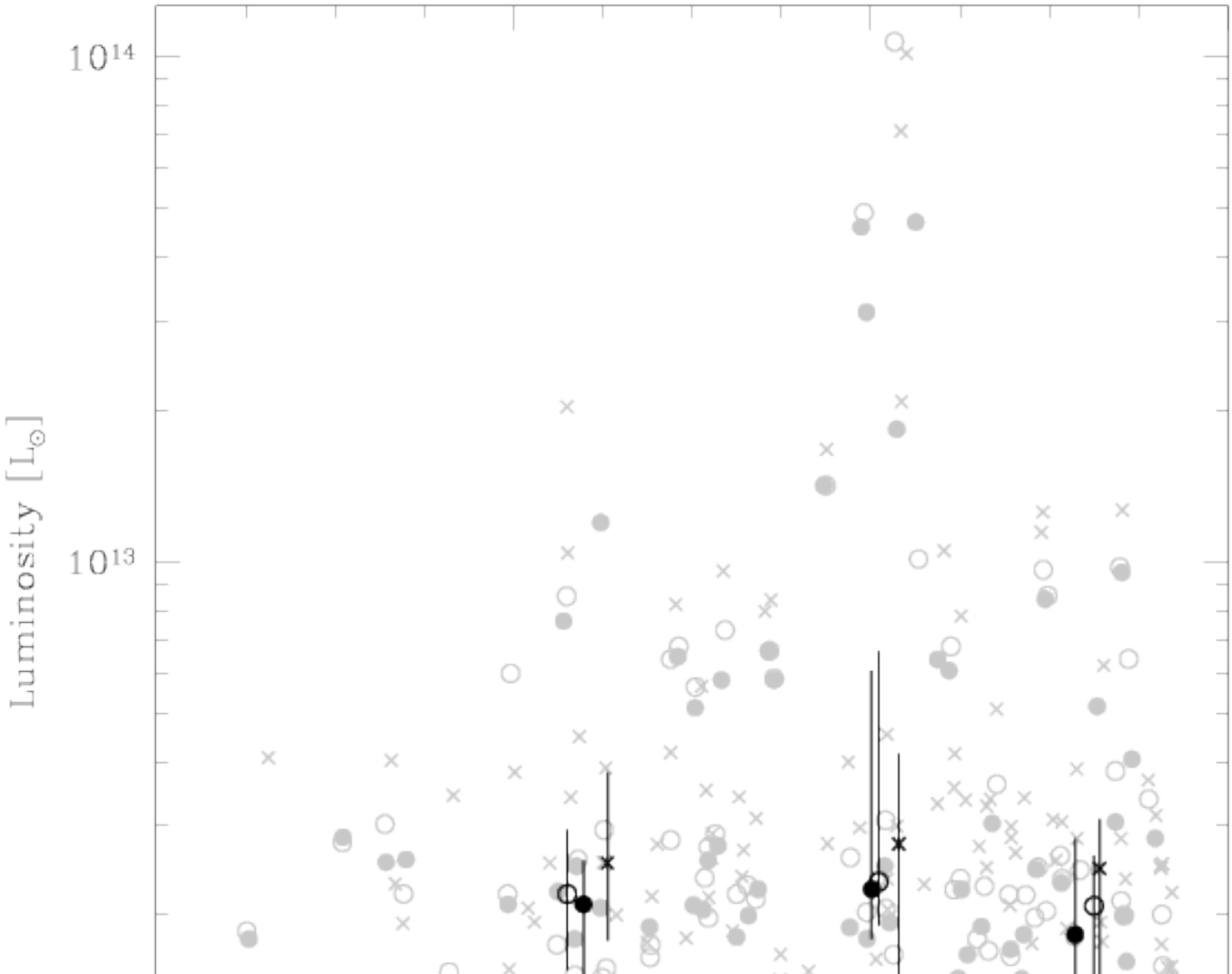

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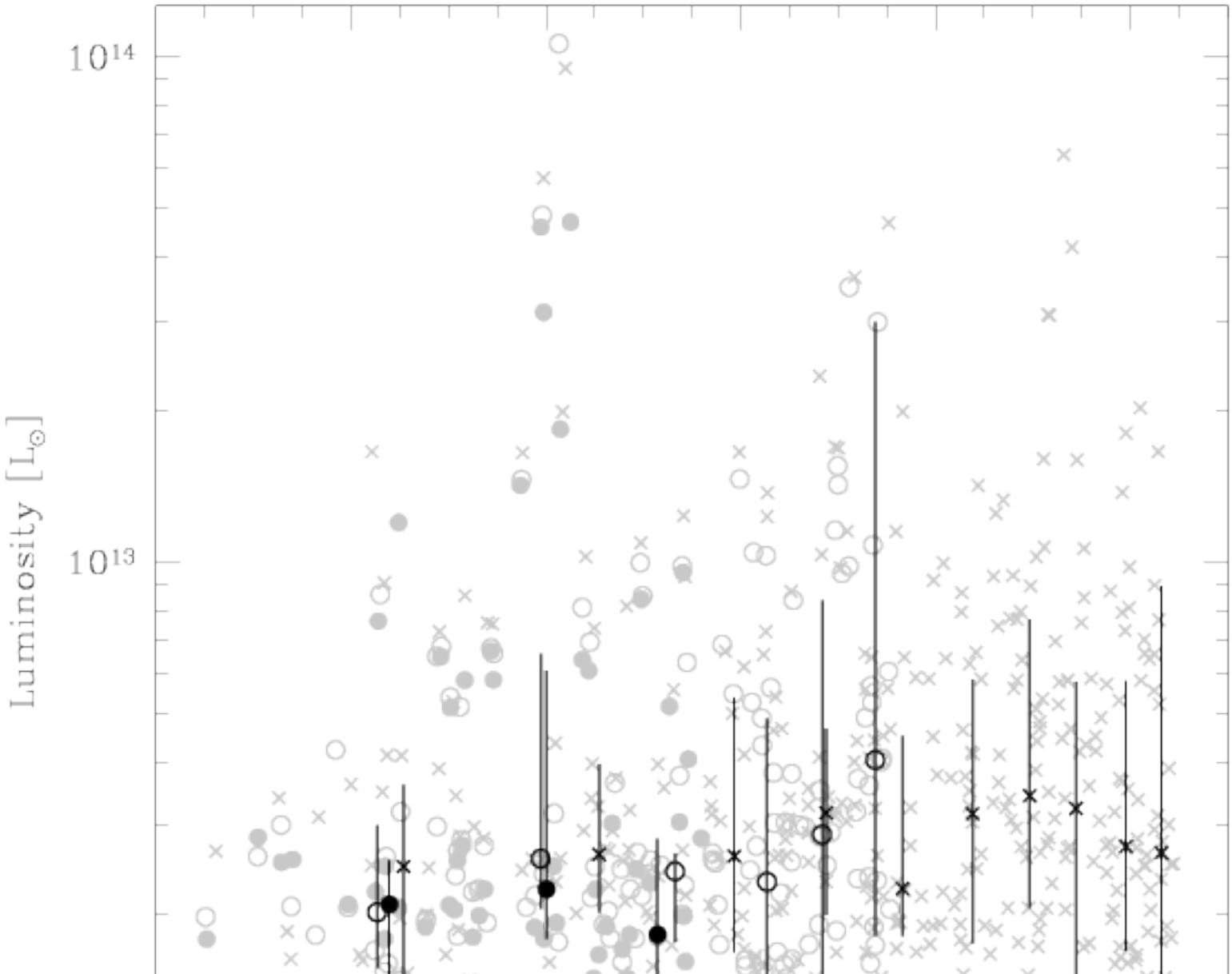

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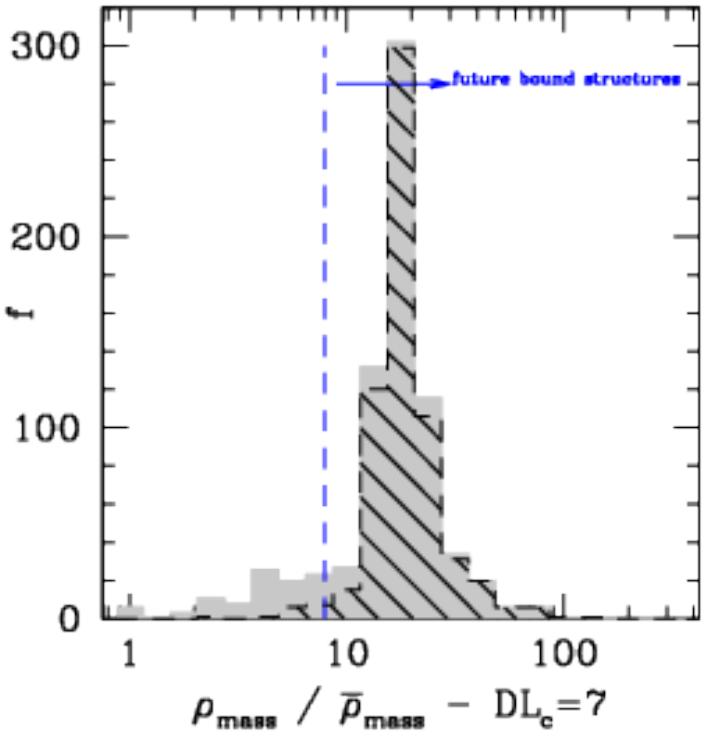

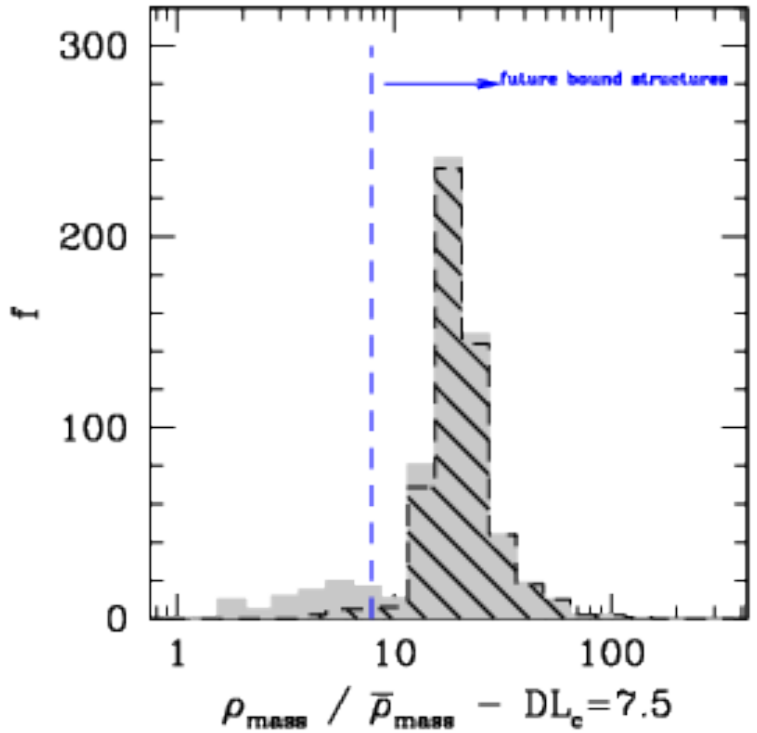

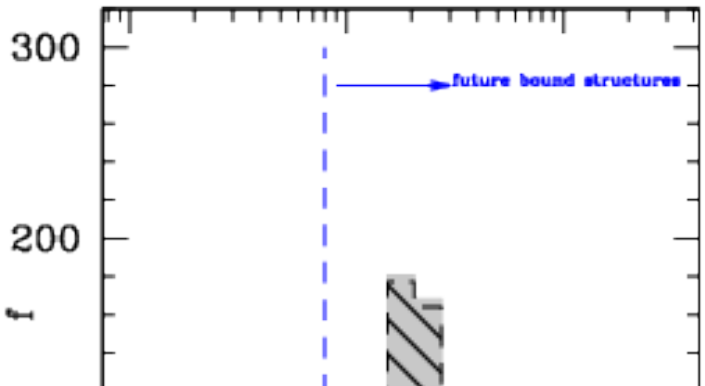

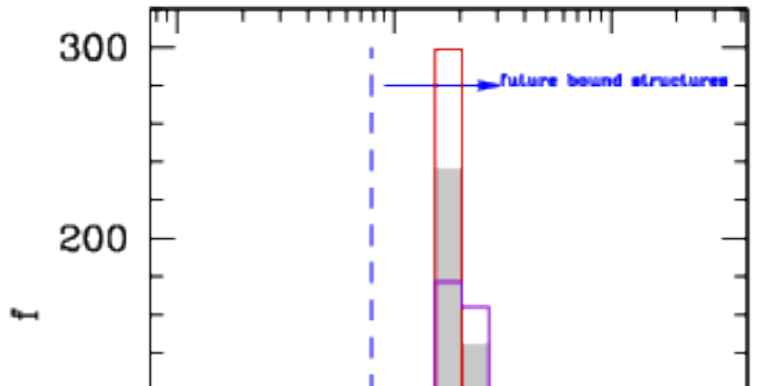

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1 Superclusters vs. FBS

As mentioned in section ?, superclusters have been traditionally identified as luminosity density enhancements or as systems of galaxy clusters. None of these criteria ensures that structures are gravitacionally bound, as stated in the definition of superclusters. Therefore, can not be said that all large scale structures actually known will be "island universes". Most recent superchuster catalogues were compiled over the 2dFGRS (Einasto et al., 2007), the SDSS-DR4 (Einasto et al., 2006), and SDSS-CE cluster catalogue (Basilakos, 2003). Those catalogues covers only partially the volume of the central zone of SDSS-DR7, so we also use the supercluster identification of Einasto et al. (2001), where the identification is based on x-ray and Abell clusters. In figure (?) we show the coverage area of each catalogue. Combining data on those catalogues, we can correlate our results with previous identifications, and to stablish wich known superclusters will be also future bound structures. We study some outstanding cases of...

Sloan Great Wall: The Sloan Great Wall... blah blah blah... los einastos no convergen en sus denominaciones!!!!!! In the region of the Sloan Great Wall, there are several individual superclusters, identified by Einasto et al. (2001). The main structures are the SCL111, named Virgo-Coma, and the SCL126. SCL126 is the richest in the SGW, and also includes SCL136 (Einasto et al, 2010). Contains several x-ray clusters of galaxies and resambles a very rich an multibranching filament (Einasto et al., 2007b). SCL111 consists of three will merge to form a single bound system in the distant future.

Bootes Supercluster: hablar de bootes a y bootes. uno lo tengo y el otro no!

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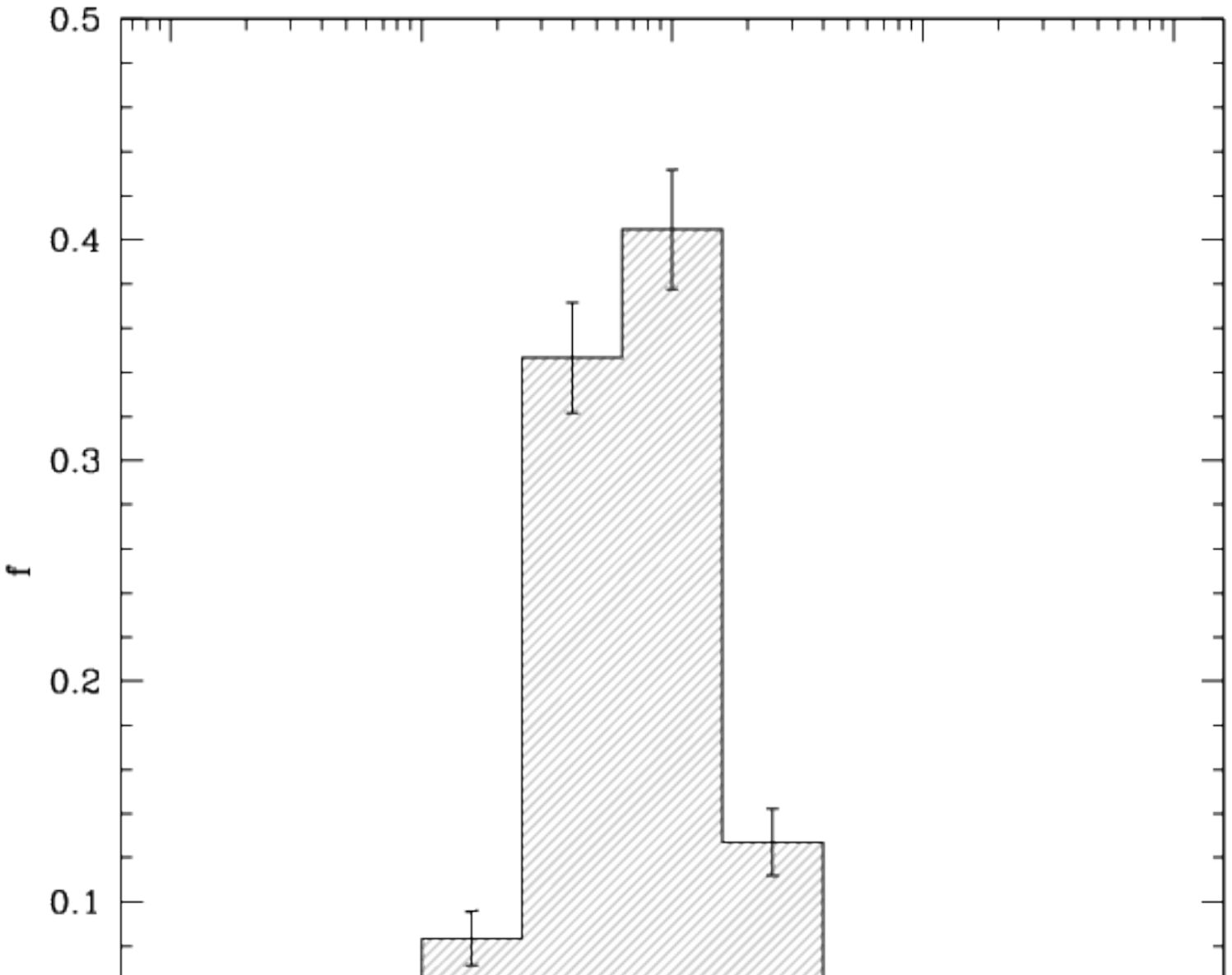

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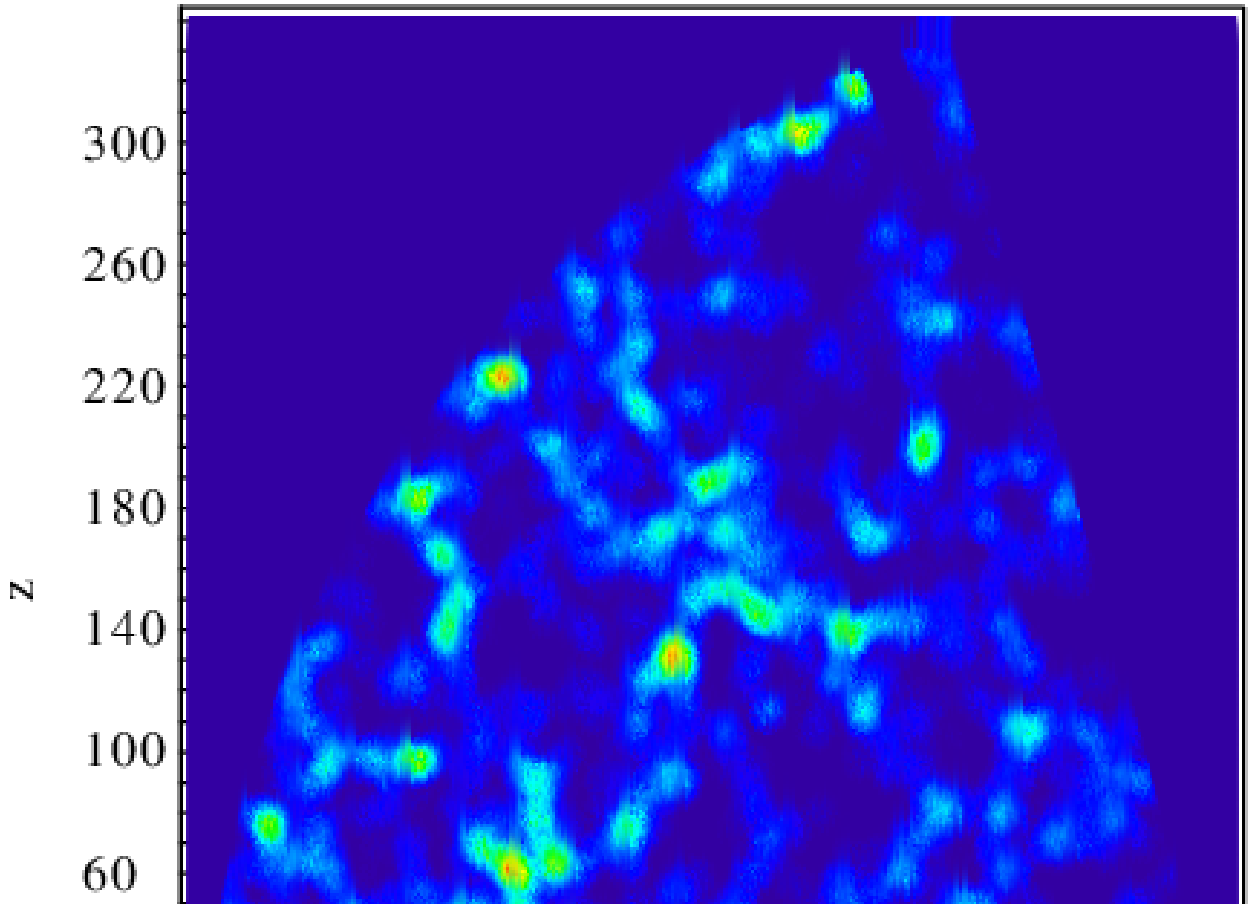

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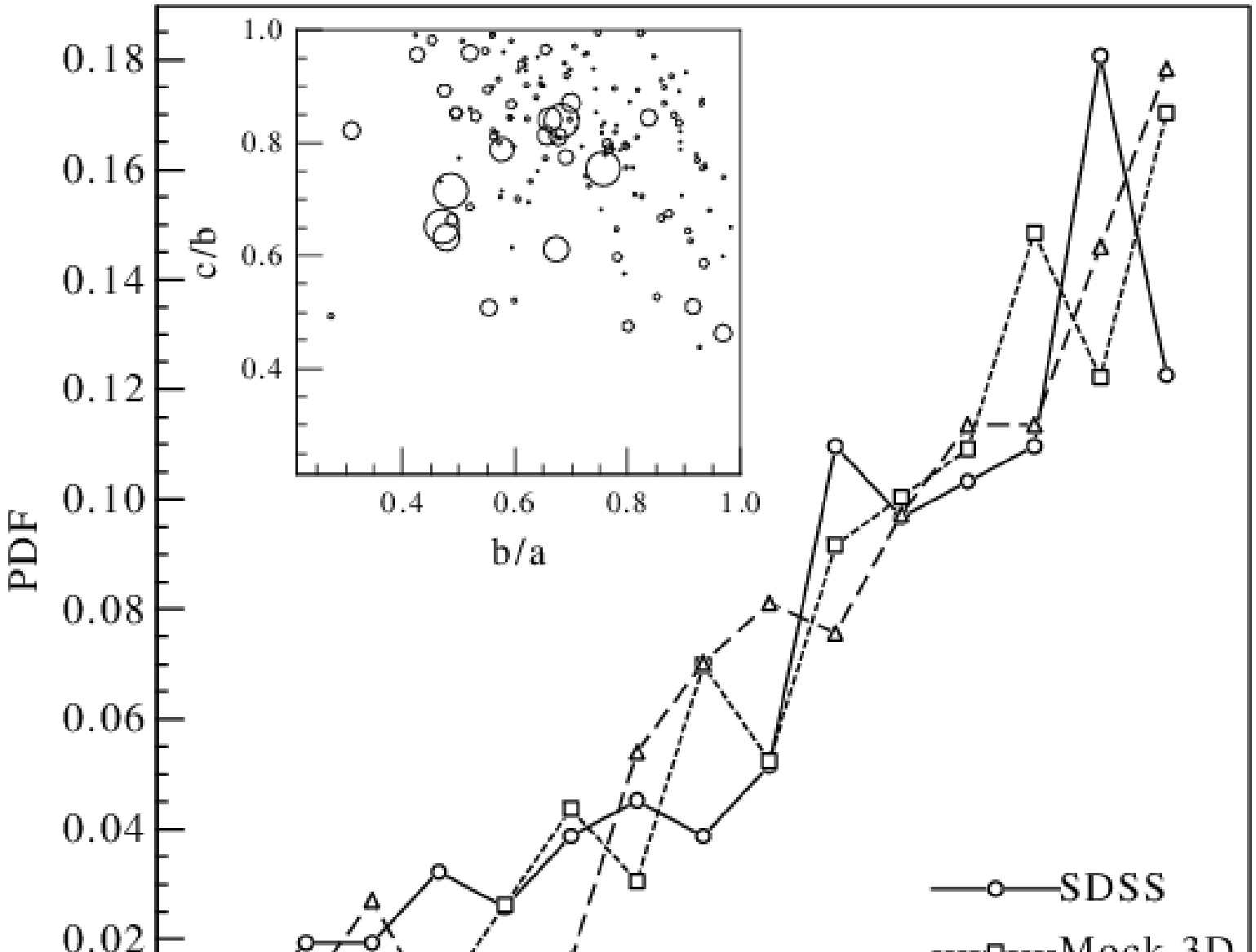

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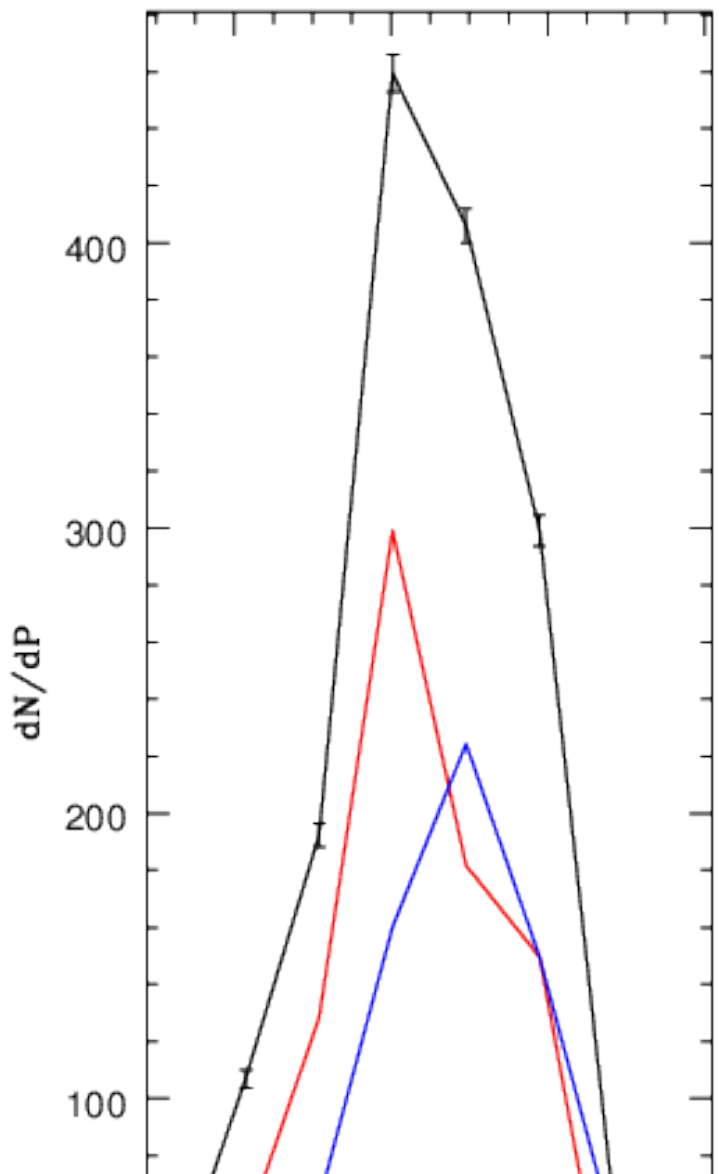

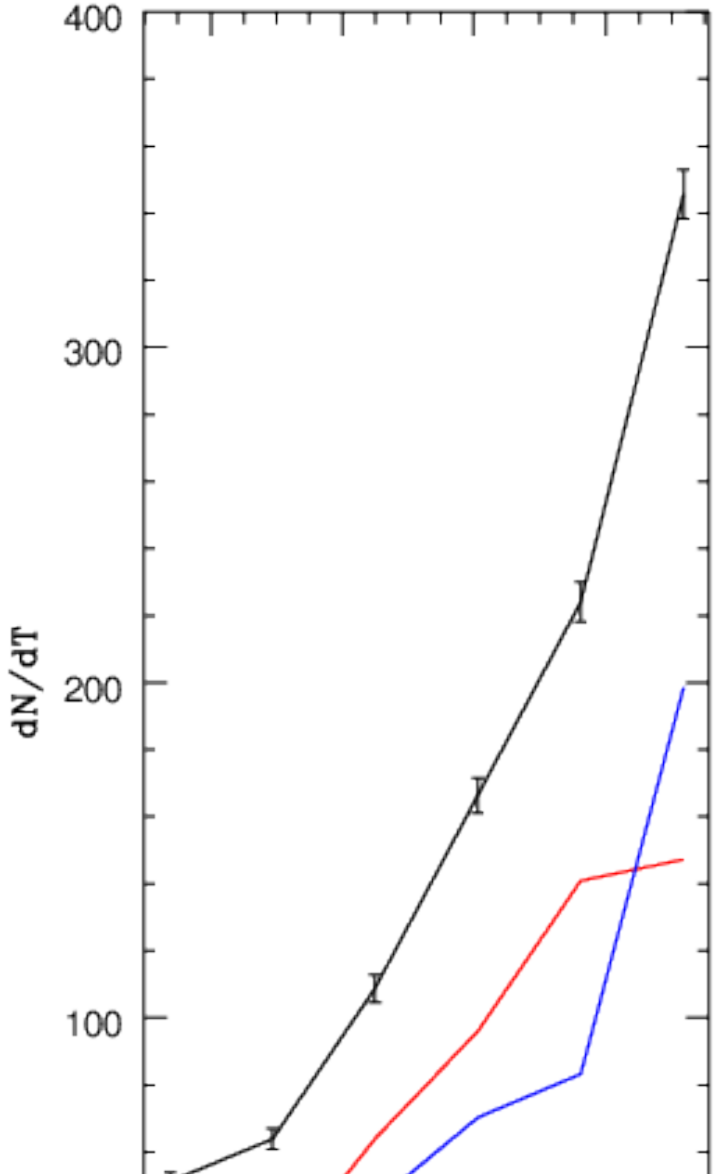

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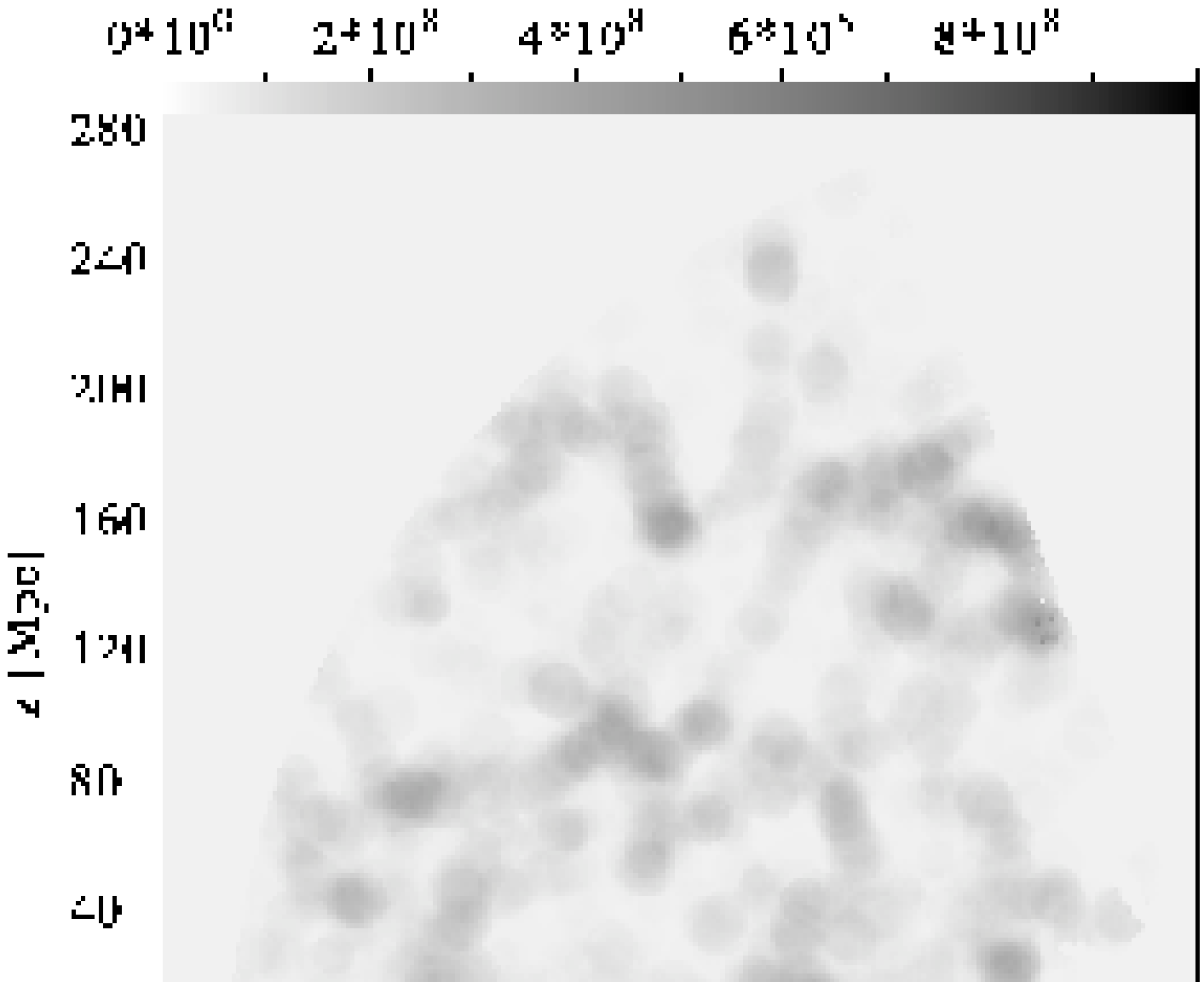

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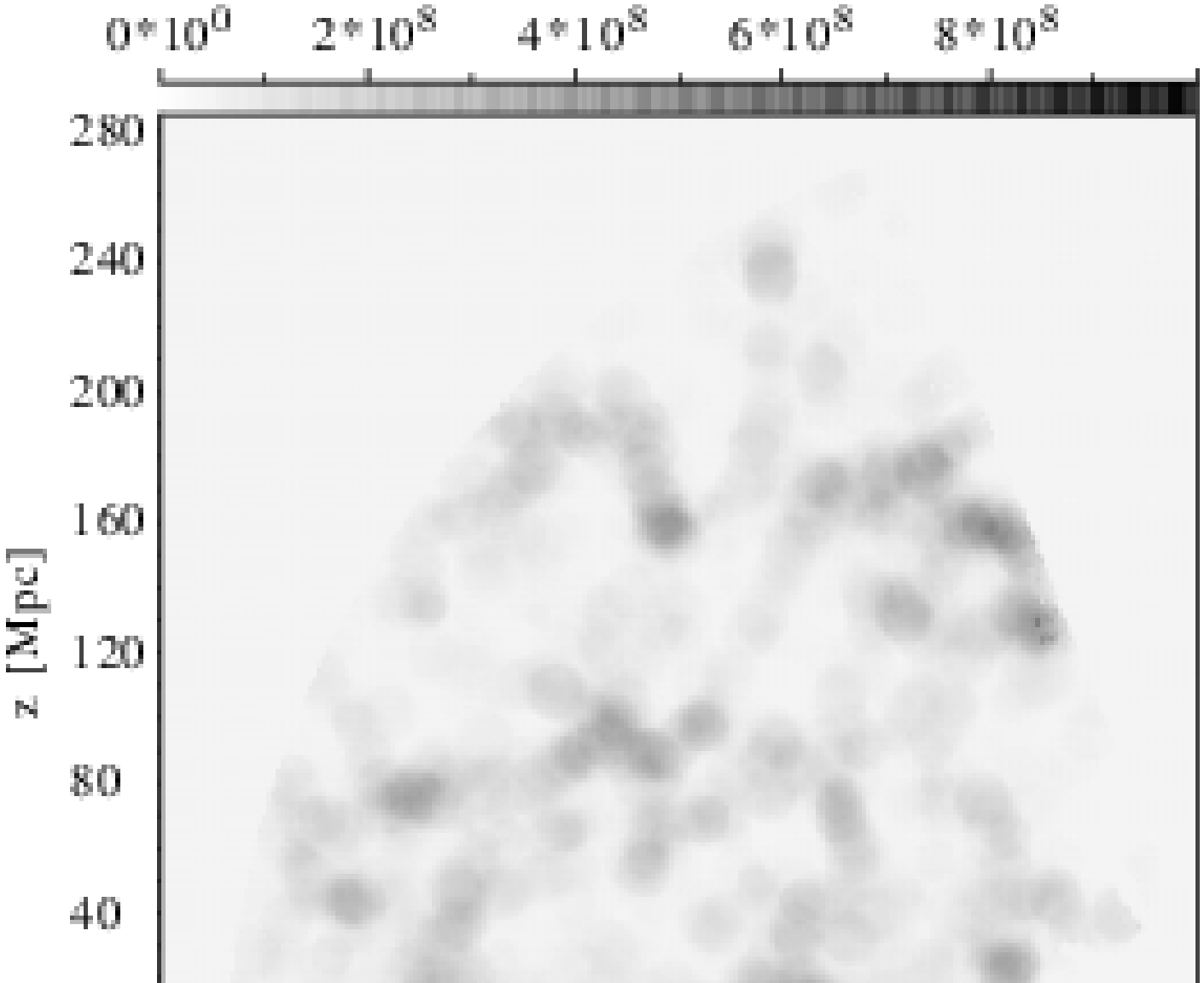

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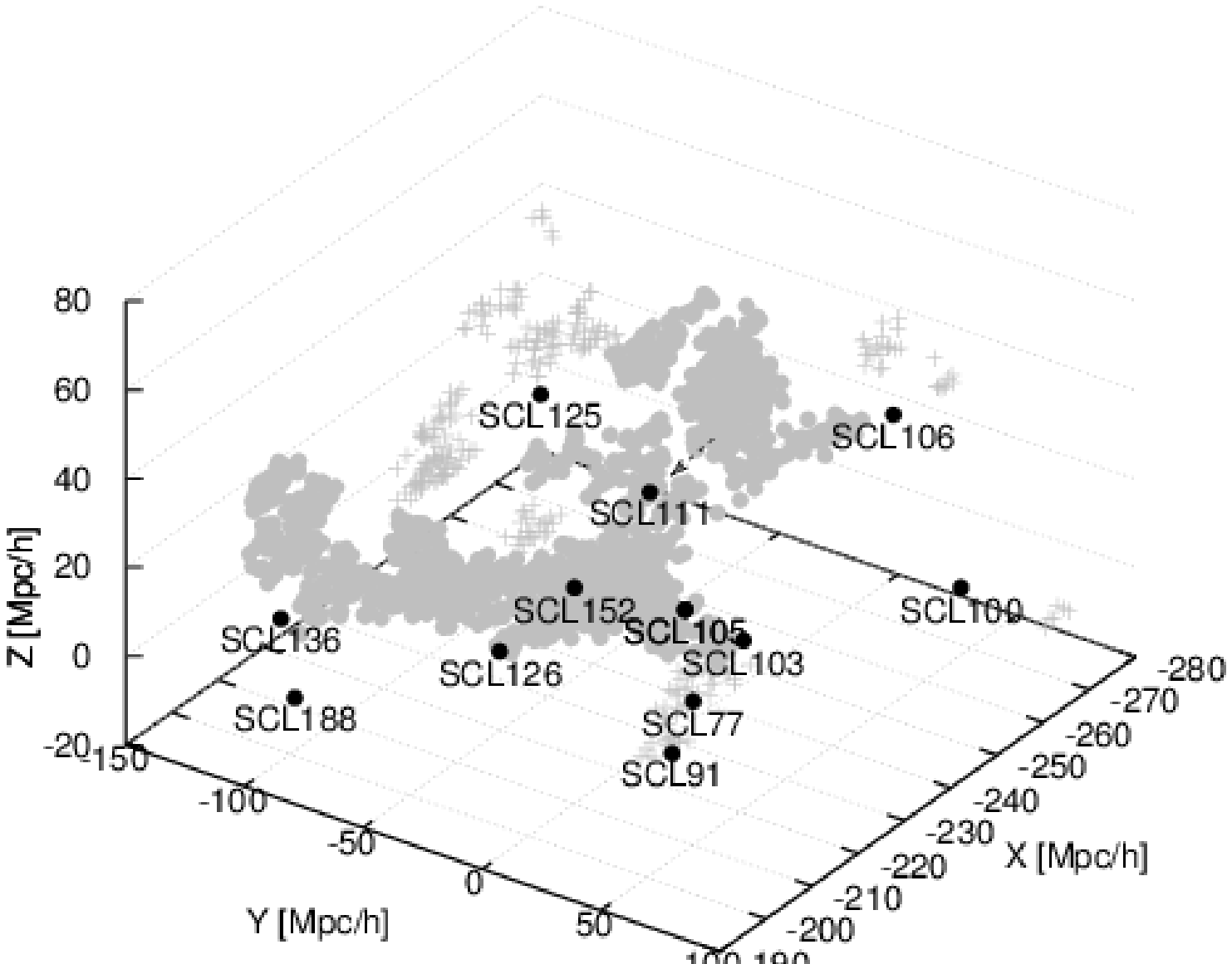

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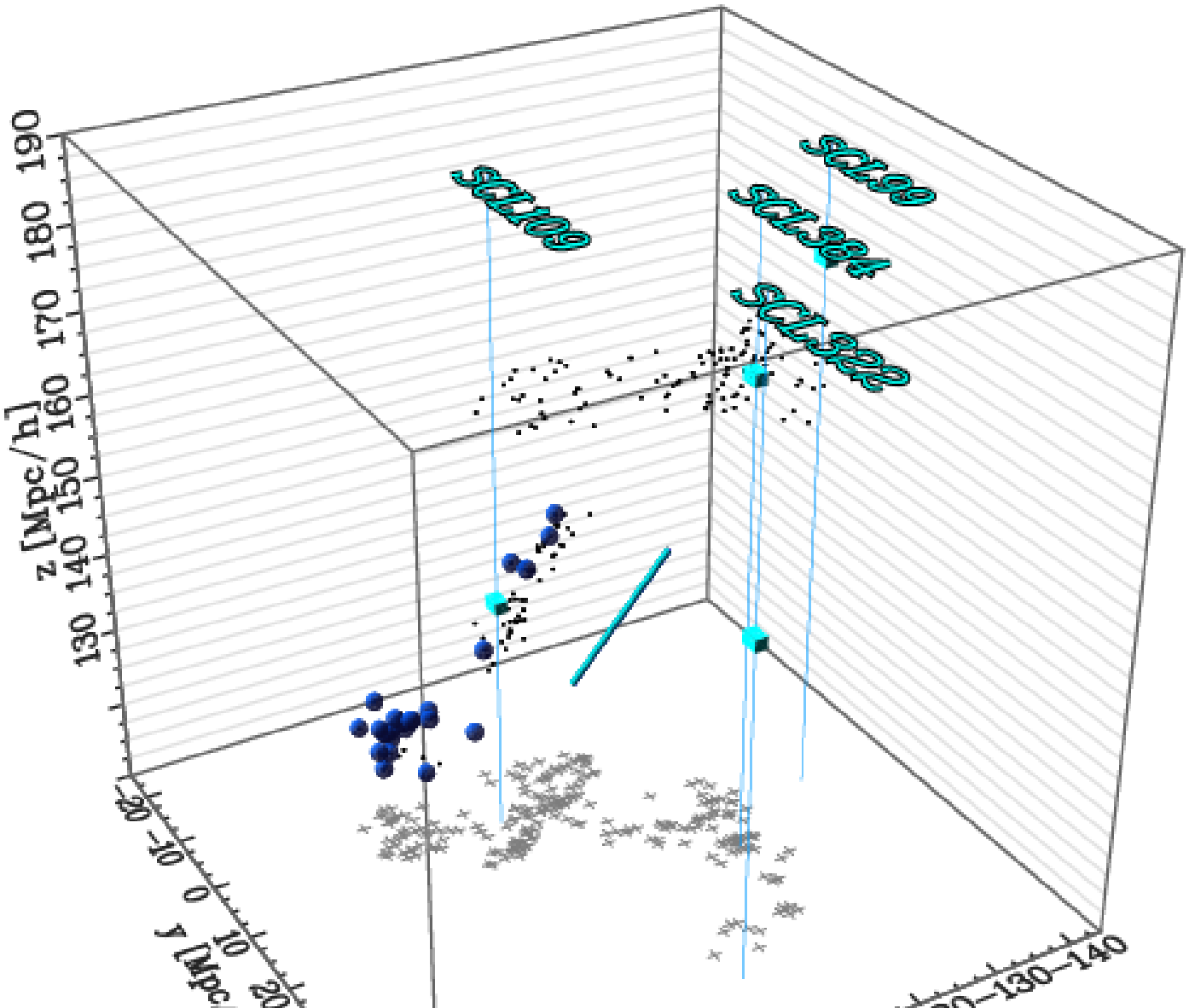

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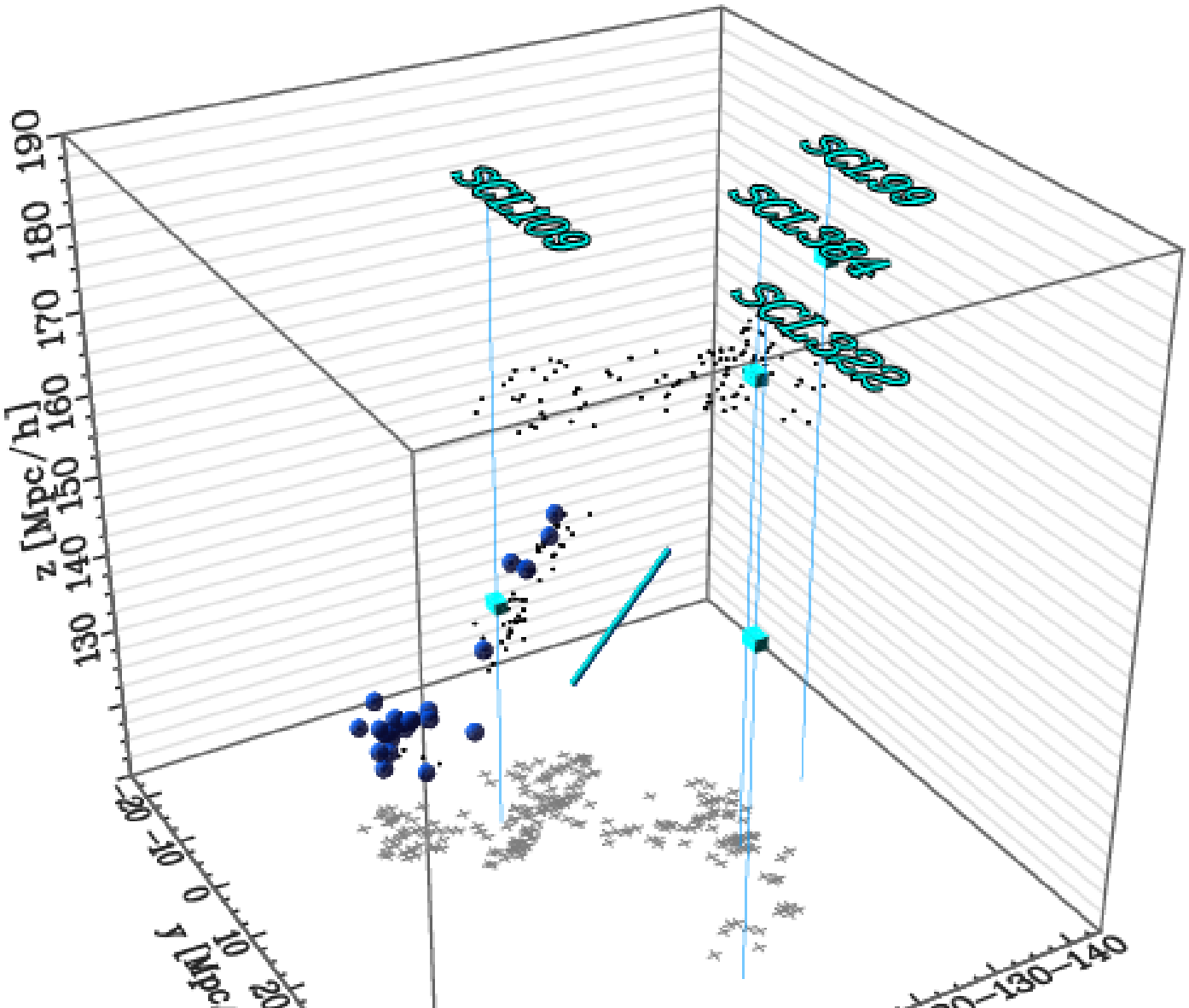

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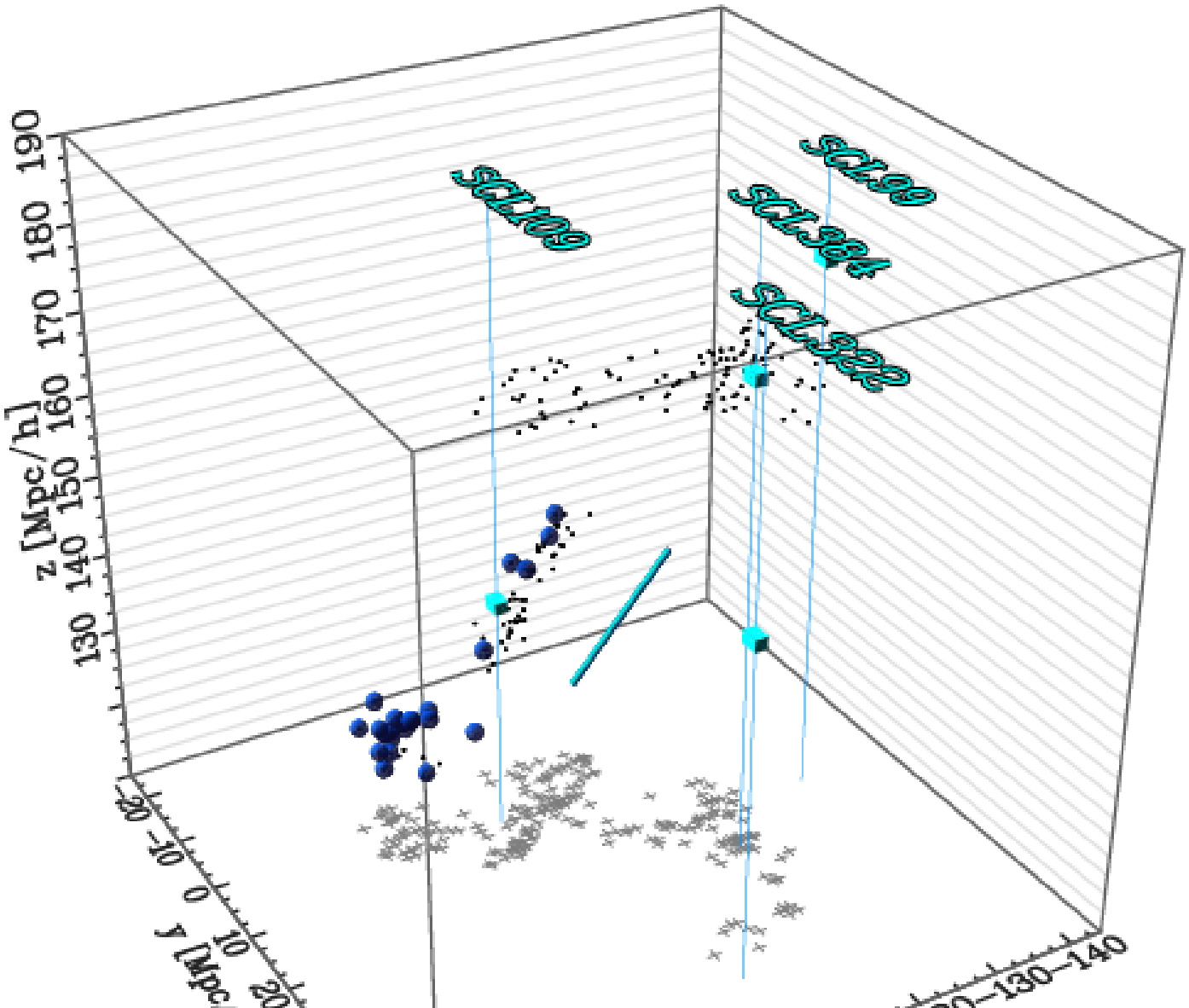

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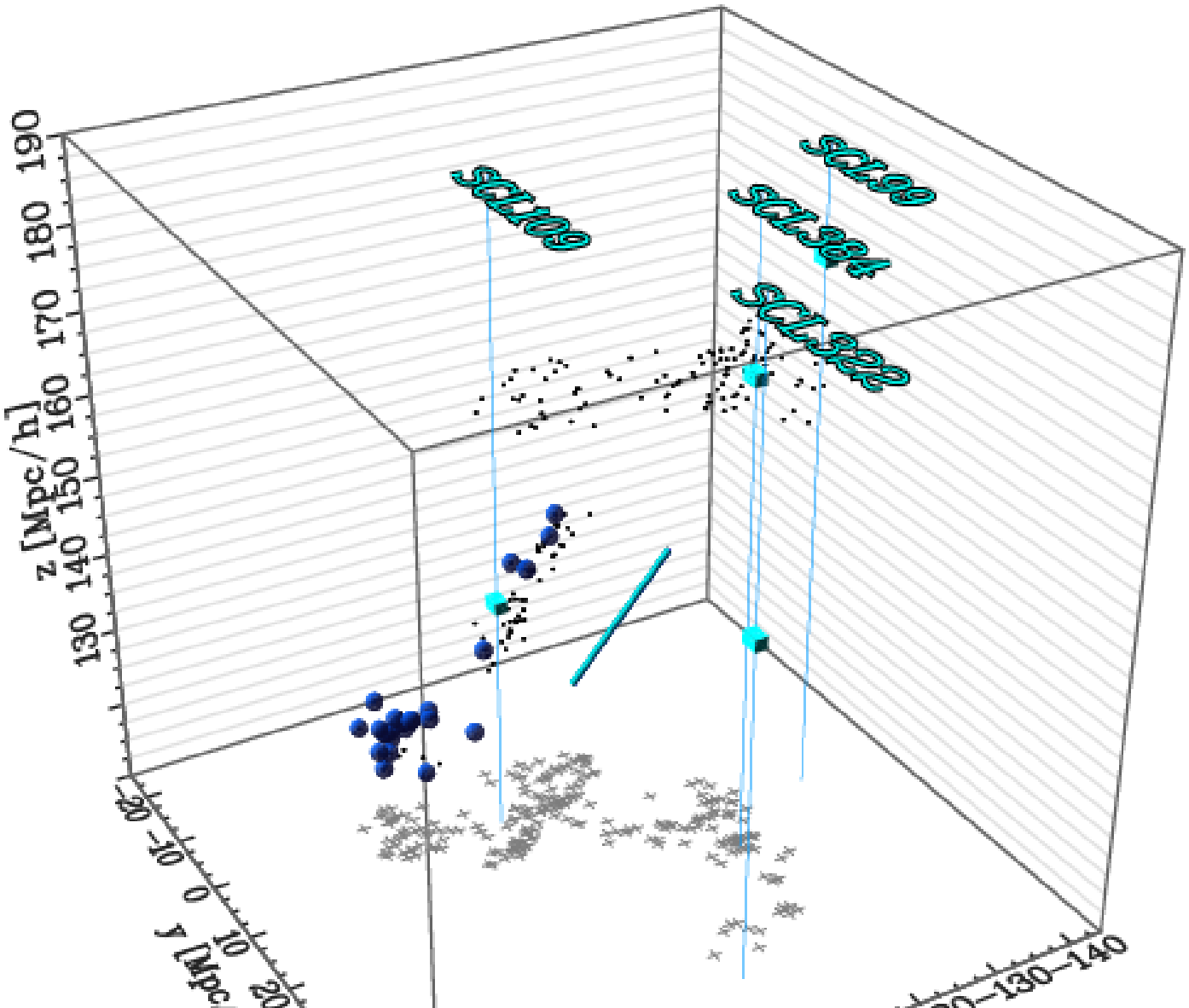

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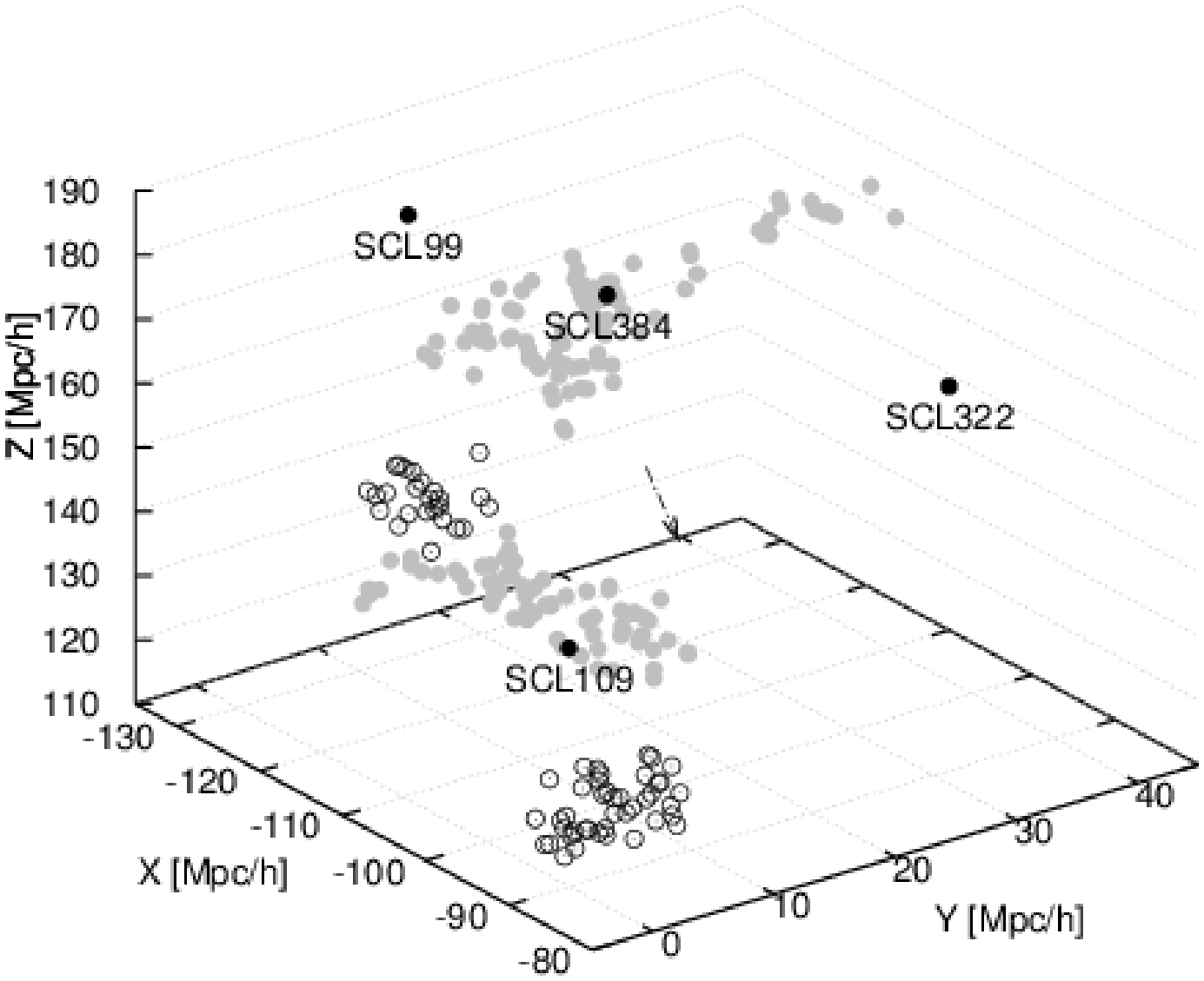

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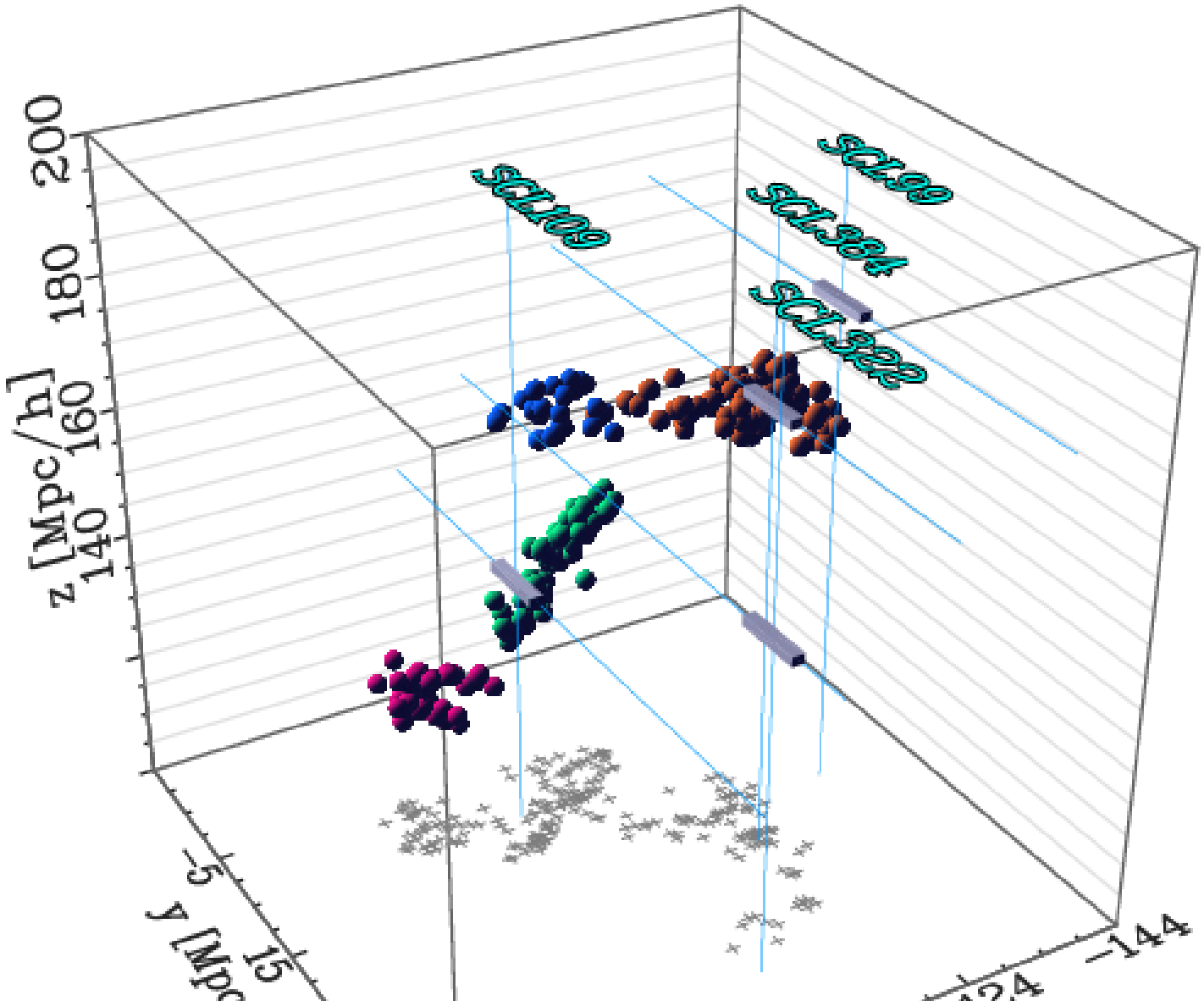

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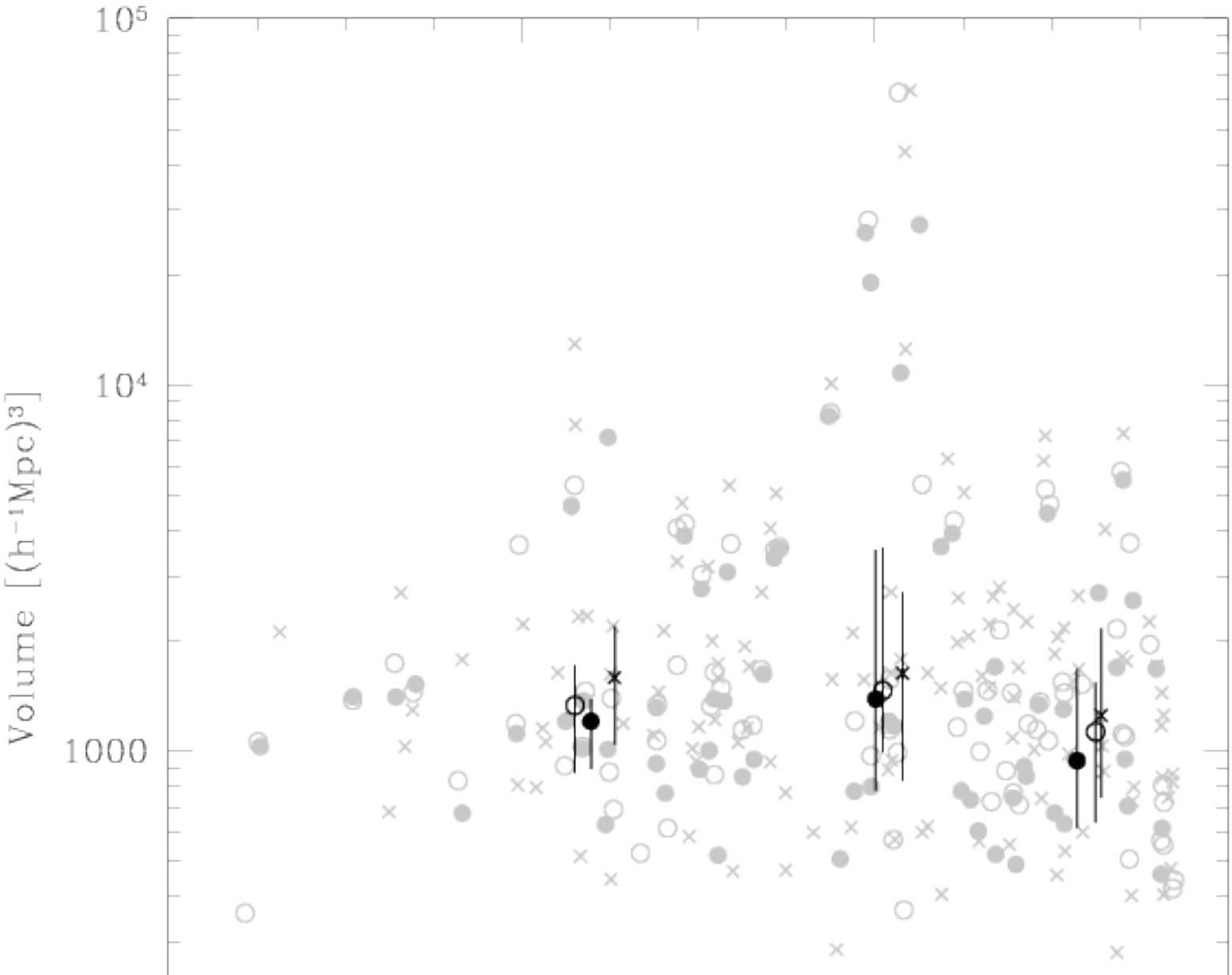

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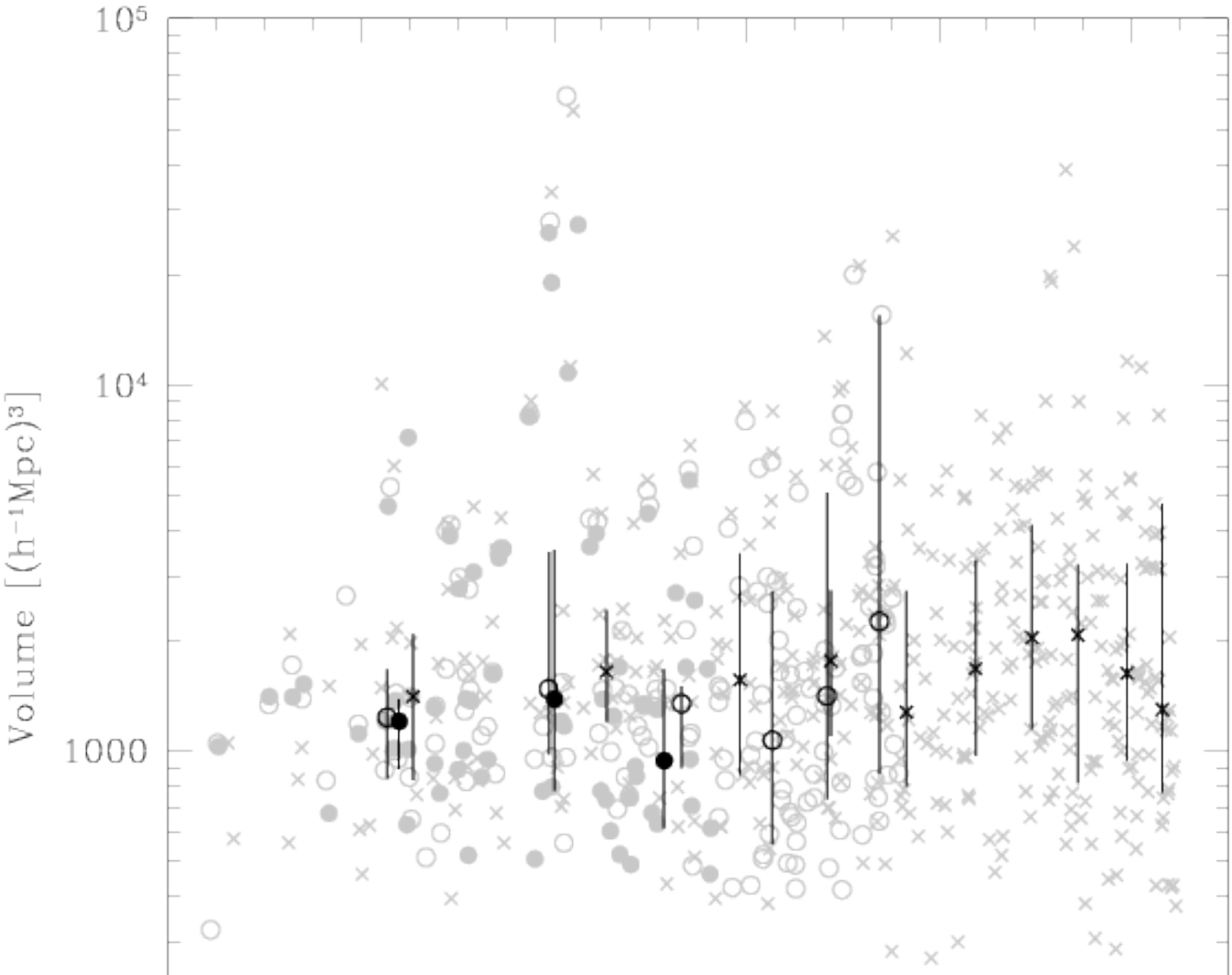

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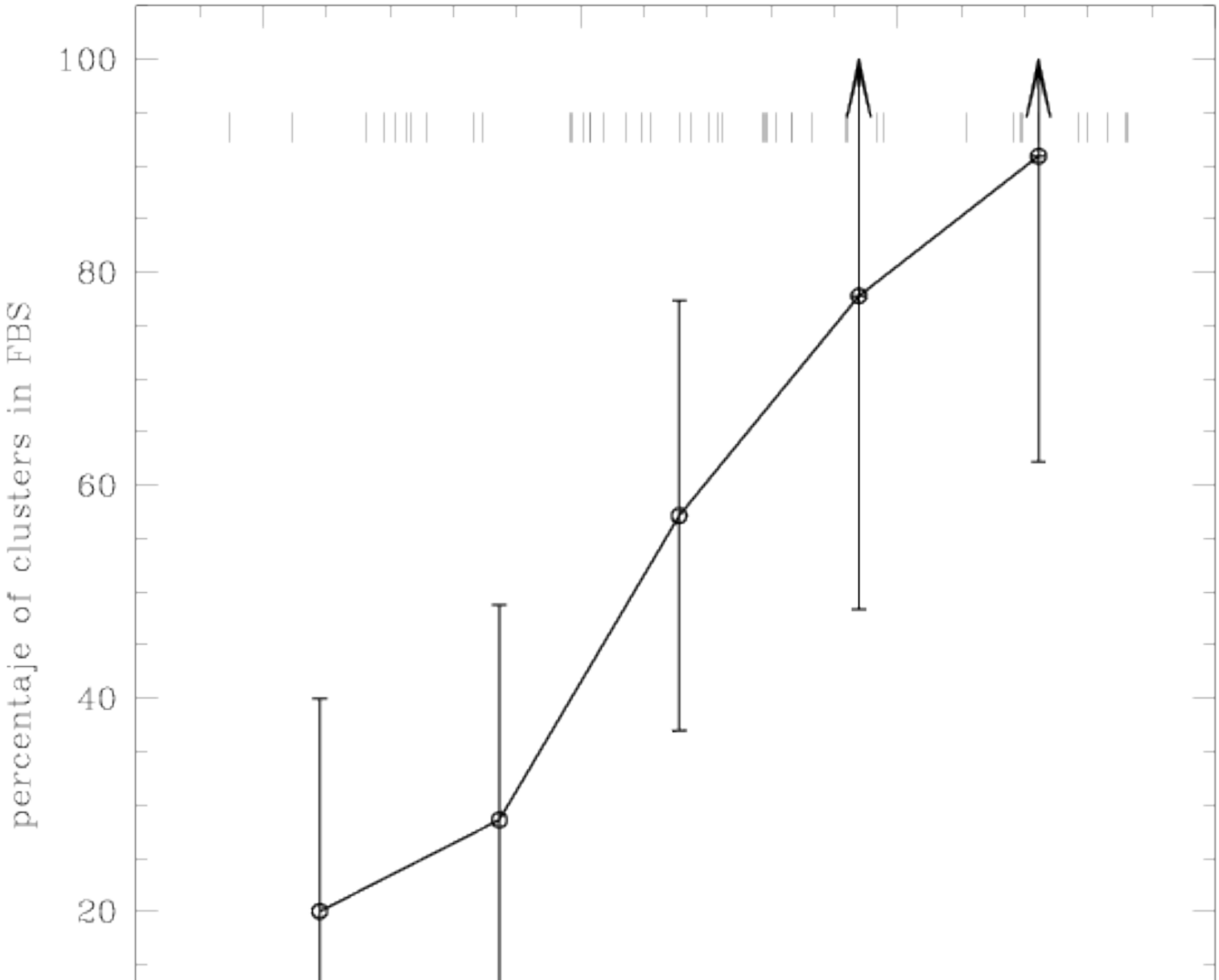

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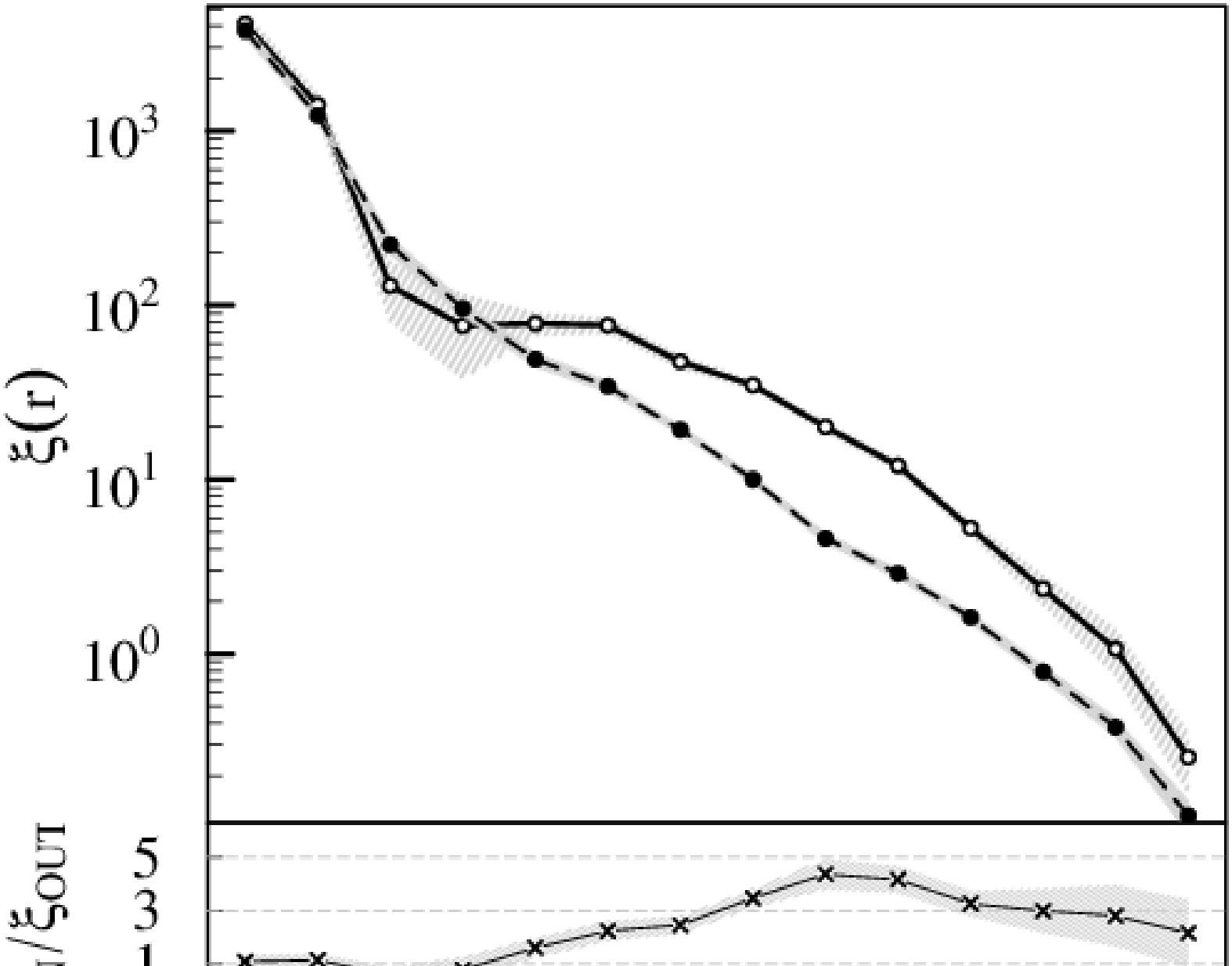

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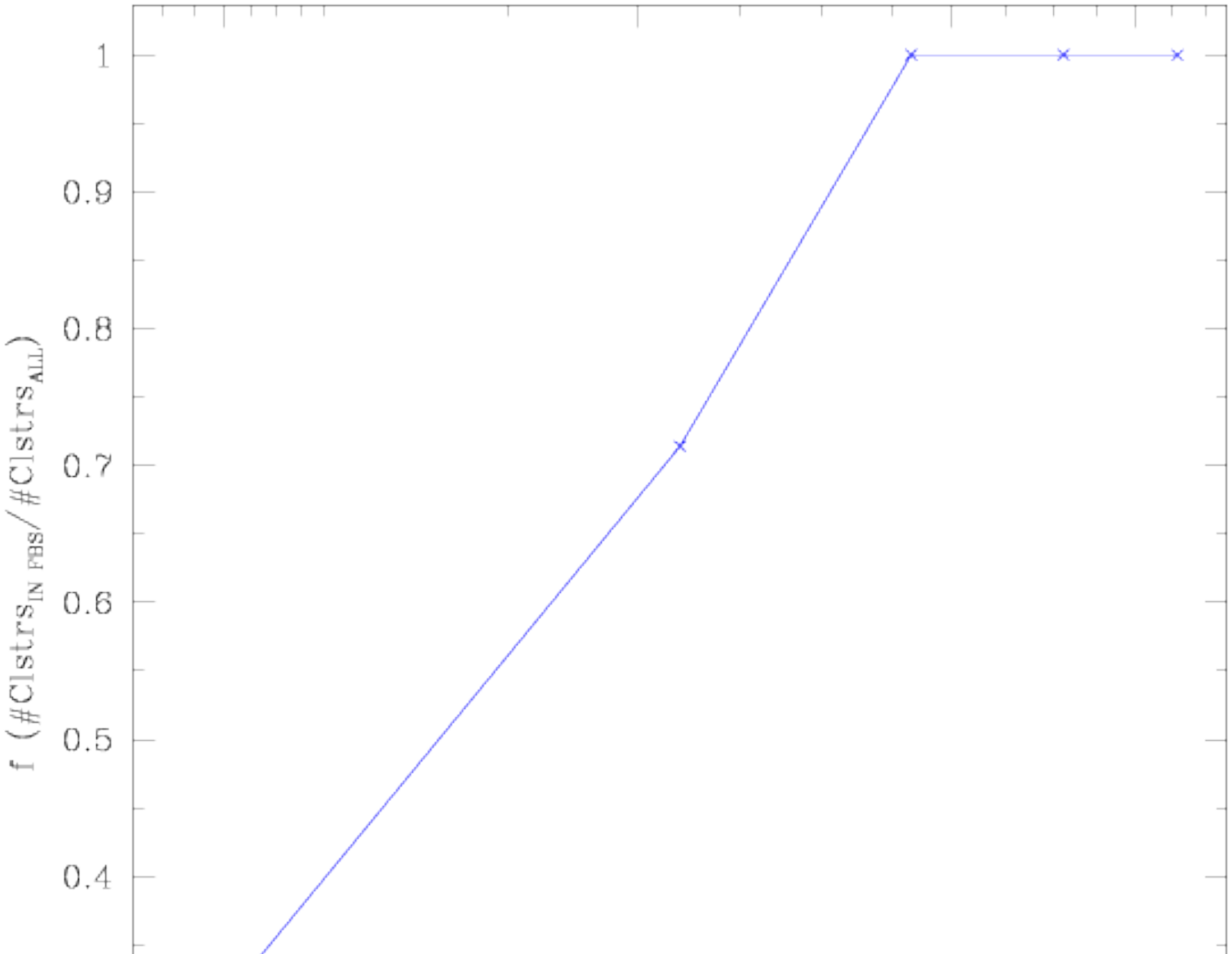
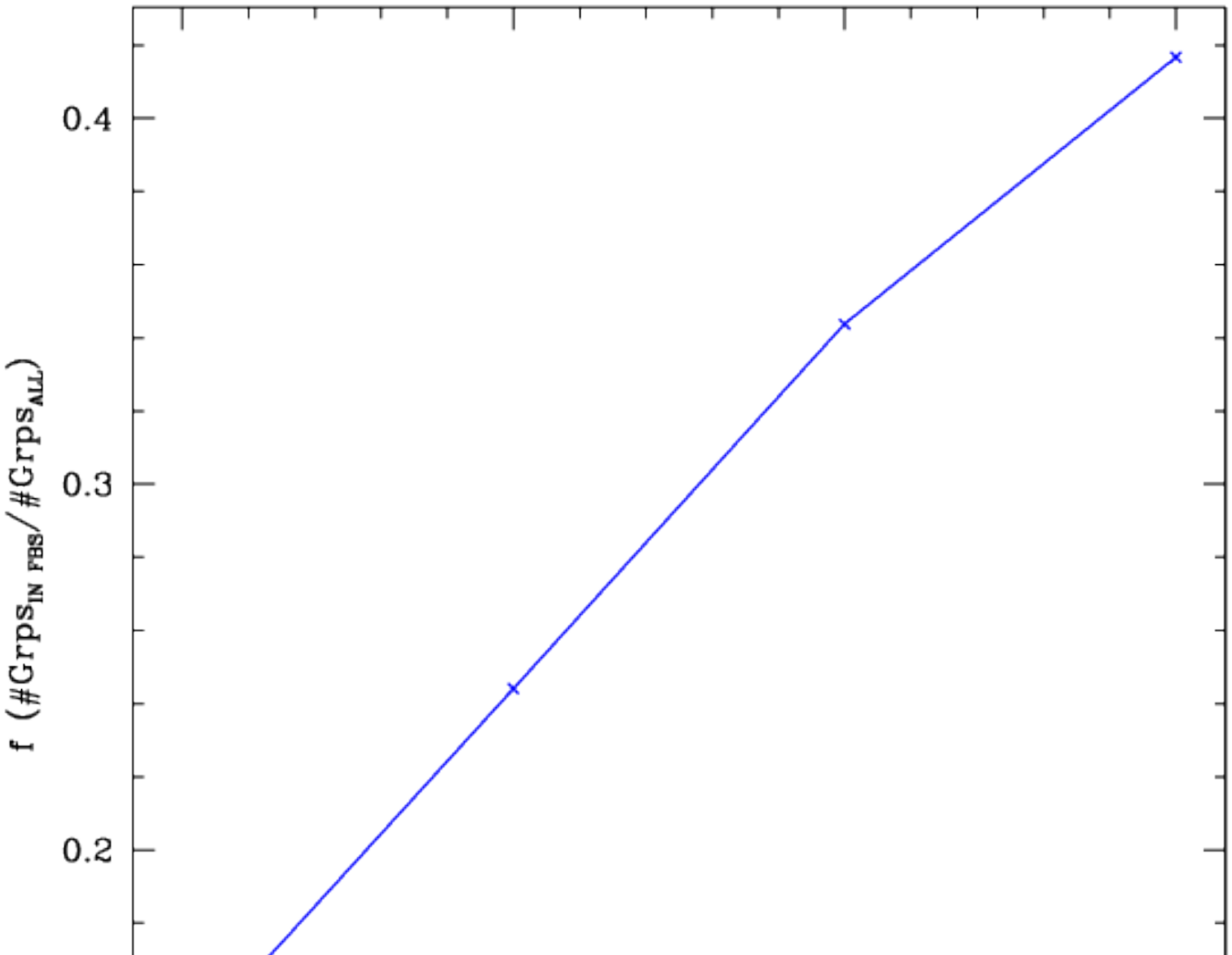
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