## Poster

## Orientation of the spins of the edge-on galaxies relative to the filaments

Antipova A., Makarov D.

## Alexandra Antipova

Special Astrophysical Observatory of the Russian Academy of Sciences, Russia

We analyze the spin orientation of edge-on galaxies relative to the filaments of the large-scale structure of the Universe. We use the Revised Flat Galaxy Catalog, which contains 4236 flat galaxies with an axes ratio a/b > 7. This simple criterion selects mostly late-type galaxies (Sc, Sd) oriented edge-on to a line of sight. The edge-on galaxies allows us to determine a spin orientation with high accuracy. We found very weak indication of an alighment of the spins with respect to the filaments on the 2-sigma level. We tested different dependancies of the alignment from galaxy properties, including the galaxy brightness, the distance from a filament, the redshift and the axes ratio a/b. The effect is most pronounced for the nearby (z<0.03) and the most thin galaxies (a/b>10).