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Measuring the growth rate of structure with cosmic voids in GAMA

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We measure the cross correlation of voids and galaxies in the Galaxy And Mass Assembly (GAMA) survey. This cross correlation exhibits an anisotropy indicative of redshift space distortions (RSD) caused by galaxies falling from the centres of voids onto the surrounding mass. We introduce a model for the multipoles of the void-galaxy cross correlation function that allows for void positions to be subject to RSD themselves. We fit this model to the data and measure the growth rate parameter associated with galaxies, $\beta_g = 0.481^{+0.049}_{-0.048}$, finding no strong evidence for void motions.

I will also present some plans for voids in the eBOSS/DES overlap.

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