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No "End of Greatness": Superlarge Structures and the Dawn of Brane Astronomy

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Several groups have recently reported observation of large scale structures which exceed the size limits expected from standard structure formation in a 13.8 billion years old LambdaCDM universe. On the other hand, the concept of crosstalk between overlapping 3-branes carrying gauge theories was recently introduced in arXiv:1502.03754[hep-th]. Crosstalk impacts the redshift of signals from brane overlap regions by making signals with the redshift z of the overlap region appear to have lower or higher redshift, depending on the electromagnetic crosstalk couplings. This leads to brane induced appearance of structure in redshift observations. The Lyman-alpha forest is a natural candidate to look for brane overlap at redshift $z < 6$.

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