

# Colloquium Notice

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*Symmetries in the large scale structure of the universe*

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We will discuss the role of symmetries in three different areas of large scale structure:  
1. how to test the equivalence principle using black holes in centers of galaxies; 2. how to measure gravitational redshift on cosmological scales using parity-violating signatures in correlation functions; 3. how spontaneously broken symmetries give us non-perturbative relations between different correlation functions.  
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Monday

**October 6, 2014**

Starts at 12:15 PM

Coffee at 12:00 PM

Physics Conference Room, SB B326