

## Whittle : EXTRAGALACTIC ASTRONOMY

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### 17. GROWTH OF STRUCTURE

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This Topic has not yet been prepared. Maybe next time (Spring 2007)

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#### (1) Introduction

Outline basic sequence -- postpone some themes to Topic 18

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#### (2) Descriptions of Density Fields

Overview -- different types  
 include brief history of usage  
 clarify scales and ranges and dimensions  
 use & importance of window functions  
 include how to normalize  
 include discussion of Gaussianity  
 Any practical aspects of calculating these from real data.

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#### (3) Initial Power Spectra

Include some history -- isothermal/adiabatic 1970s; isocurvature/adiabatic now.

discuss meaning of "scale invariant"  
include several kinds of IPS -- and their weaknesses.



## (4) Evolution of Density Fluctuations

preliminary version



## (5) Baryon Acoustics & Structures



## (6) Redshift Surveys



## (7) Velocity Fields

