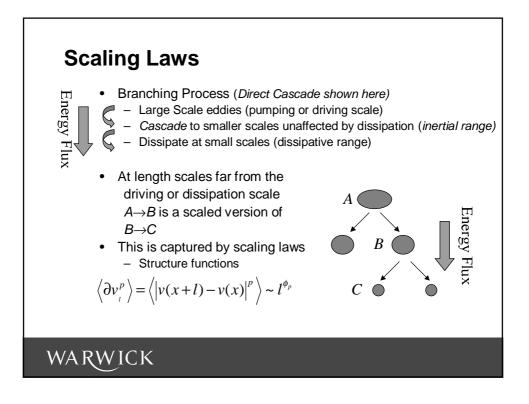
Analysis Of Incompressible 3D MHD Turbulence As Applied To The Solar Wind

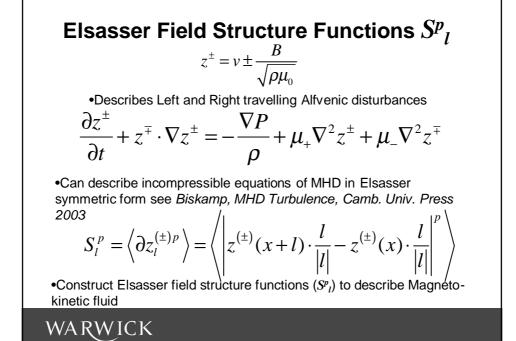
James A Merrifield¹ Wolf-Christian Muller² Sandra C Chapman^{1,3} Richard O Dendy⁴

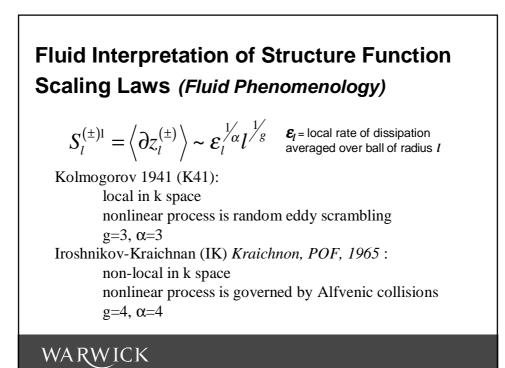
- "Extended Self-Similartiy" analysis performed on 3D MHD DNS of Biskamp and Muller, POP, 2000
- Application to Solar Wind

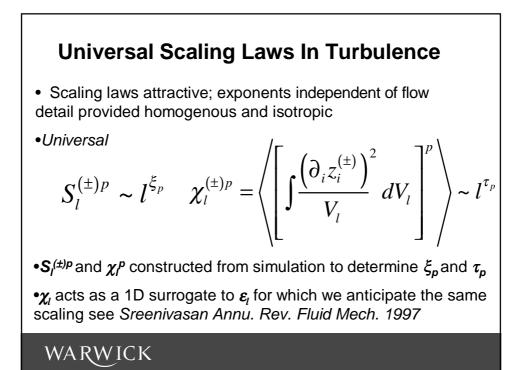
(1)University of Warwick, England, (2) IPP, Garching, Germany, (3) Radcliff Institute, Harvard, MA, USA, (4) UKAEA Fusion Division, Culham, Oxfordshire, England

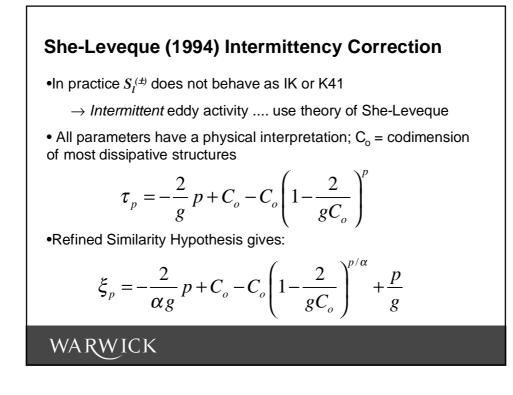
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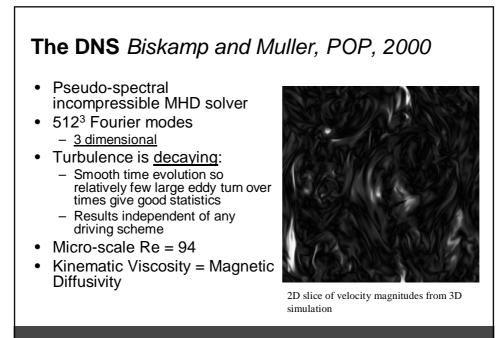




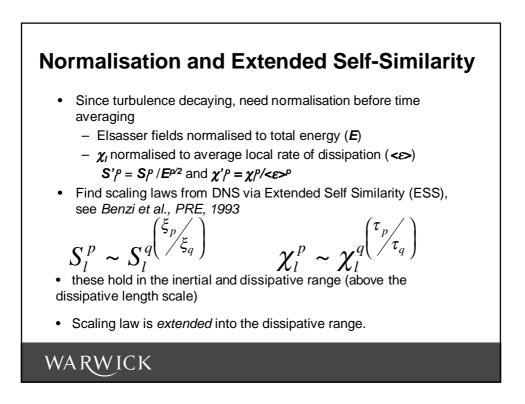


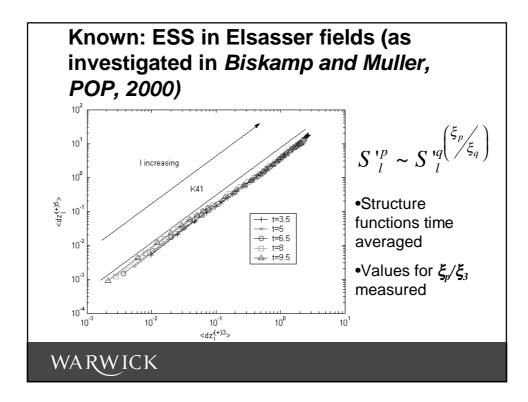


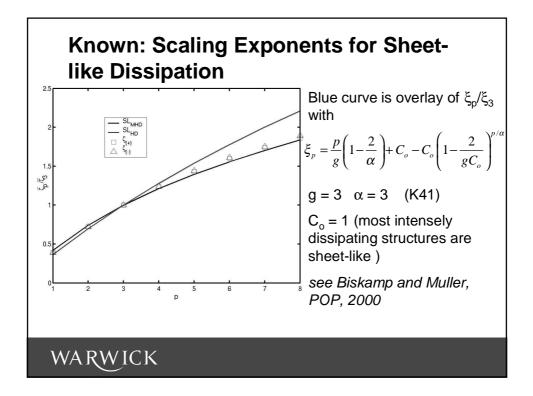


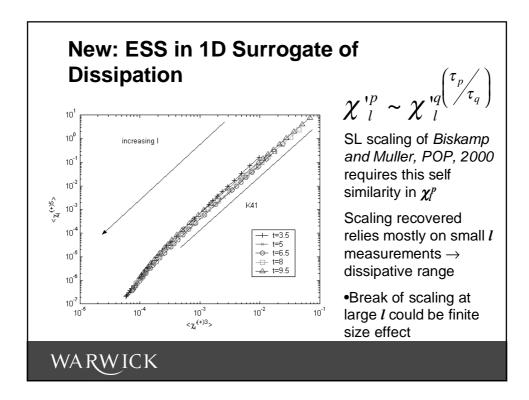


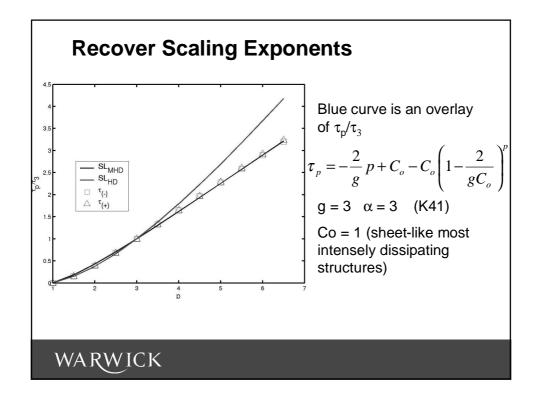
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Application to Solar Wind despite mean \overline{B} anisotropy

- Has been applied to ion thermal velocities measured from ACE see *A. Bershadskii, POP, 2003*
- Effect of mean field on exponents is quite weak for fluctuations \perp to \overline{B}
- Smooth crossover to 2D behaviour seen for large B

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