

R007-05

C 会場 : 11/25 PM1 (13:45-15:45)

14:45~15:00:00

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On approximation of time correlations in anisotropic magnetohydrodynamic turbulence

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Standard statistical theories of turbulence such as the direct interaction approximation [e.g., Kraichnan, 1959; Nakayama, 1999] can give evolution equations for time correlation. By solving those equations analytically or numerically, we obtain approximate solutions for time correlations in turbulence. In this presentation, we revisit such equations (integro-differential equations) for time-correlation in anisotropic magnetohydrodynamic turbulence [e.g., Nakayama, 1999,2002] and discuss dependence of approximate solutions on each term and parameters. We also discuss the application of approximate solutions to sub-grid scale modeling of local turbulence.