

String Theory Outline

1. New kinds of tree diagrams
 - a) Trees in QFT
 - b) Search for dual resonance amplitudes
2. Veneziano Amplitude
 - a) Singularities and Regge behavior
 - b) Operator representation and factorization of pole residues
3. Virasoro generators and ghost decoupling
4. Nambu's string action
 - a) Phase space constraints
 - b) Lightcone parameterization and quantization of Nambu action.
 - c) Lightcone path integral and scattering amplitudes.
 - d) Open and closed string.
5. New degrees of freedom and new models
 - a) Fermionic worldsheet fields
 - b) RNS amplitudes and worldsheet supersymmetry
 - c) GSO projection and target space supersymmetry.
6. AdS/CFT