



## **ICTS Skype Seminar**

- Title : On the possibility of a cubic closed string field theory
- Speaker : Roji Pius, Perimeter Institute for Theoretical Physics, Canada
- Date : Wednesday, 20 December 2017
- Time : 10:00 AM
- Venue : Nambu Discussion Room (Left), ICTS Campus, Bangalore
- Abstract : String field theory is the quantum field theory that describes the dynamics of interacting strings. Unlike the string field theory describing the dynamics of only open strings, the practical utility of closed string field theory, the field theory describing the dynamics of closed strings, is very limited. Moreover, the action for closed string field theory is not polynomial. In this talk, I shall describe a new construction of closed string field theory that is well suited for doing computations. Interestingly, we will see that this new construction hints towards the possibility of a cubic closed string field theory.