Satchidananda Naik

Research Summary:

Self-dual $N = 8$ Super gravity as open string

Here we take the super Lorentz group $OSp(8|2)$ as a local gauge group in the $N = 8$ super space. The self-dual part of the field is formulated as a zero curvature condition in the twistor space. Due to twistors an off-shell formulation is possible. In the Frobenius gauge this can be formulated as a string theory. All the MHV gravity amplitudes are calculated.

Preprints:

1. **The Open string formulation of $N = 8$ self-dual Super gravity** to appear soon

Conference/Workshops Attended:

1. International String theory Workshop ,ISM06 at Puri, from Dec'12-22 06

Other Activities:

Courses given: Mathematical Methods Part II from Jan-May 2007