

# Theoretical Physics Seminar

Monday, January 27, 2020 / Pupin Hall Theory Center, 8<sup>th</sup> Floor / 2:10 PM

## Sergei Dubovsky - NYU

### “Integrability from Confinement”



I will report on the recent progress in the study of confining strings. I will argue that high energy scattering on the worldsheet naturally leads to integrable dynamics. I will present lattice measurements of glueball spins in  $D=3$  gluodynamics supporting this statement. I will also describe an integrable relativistic  $N$ -body system arising in the high energy limit on the worldsheet in massive adjoint  $D=2$  QCD. This system describes an  $N$ -particle subsector of a massless  $T\bar{T}$ -deformed fermion.