

ESI Workshop on “Higher Spin Gravity”

April 10 - 20, 2012

Schedule for week 1: April 10 - 13

Organized by: Matthias Gaberdiel, Daniel Grumiller, Per Kraus, and Radoslav Rashkov

- **Tuesday, April 10**

09:15 – 09:30: Welcome and announcements

09:30 – 10:30: Per Kraus

Black holes in 3D higher spin gravity, part I

10:30 – 11:00: coffee break

11:00 – 12:00: Martin Ammon

Black holes in 3D higher spin gravity, part II

12:00 – 14:30: lunch break

14:30 – 15:30: Eric Perlmutter

Black holes in 3D higher spin gravity, part III

15:30 – 16:00: break

16:00 – 17:00: Augusto Sagnotti

On String theory and Higher Spins

- **Wednesday, April 11**

09:30 – 10:30: Nicolas Boulanger

Off-shell Formulation of Higher-Spin Gravity Part I: Classical Action

10:30 – 11:00: coffee break

11:00 – 12:00: Per Sundell

Off-shell Formulation of Higher-Spin Gravity Part II: BRST-BV Action

12:00 – 14:30: lunch break

14:30 – 15:30: Maxim Grigoriev

Parent BRST approach to higher spin gauge fields

- **Thursday, April 12**

09:30 – 10:30: Iosef Buchbinder

Review of BRST Approach to Lagrangian Formulation for Higher Spin Field Theories

10:30 – 11:00: coffee break

11:00 – 12:00: Alfredo Perez

Regularized action for higher spin gravity in 3D: black holes, global charges and thermodynamics

12:00 – 14:00: lunch break

14:00 – 15:00: Simone Giombi

Higher spin theories, holography and Chern-Simons vector models

15:00 – 15:30: break **15:30 – 16:30:** Andrew Waldron

Bulk Conformal Geometry and Solutions to Proca Systems

- **Friday, April 13**

09:30 – 10:30: Euihun Joung

Cubic interactions of massive and massless higher spins in (A)dS **10:30 – 11:00:** coffee break

11:00 – 12:00: Kostya Alkalaev

Generating formulation for higher spin gauge fields

12:00 – 14:30: lunch break

14:30 – 15:30: Massimo Porrati

On the Unitarity of Critical Gravity and Other Higher-Derivative Theories

15:30 – 16:00: break

16:00 – 17:00: Glenn Barnich

Topics in asymptotically flat gravity in 3 and 4 dimensions

19:00: Heurigen Dinner

All lectures take place in the ESI Boltzmann Lecture Hall