

#### Laboratory for Elementary Particle Physics (LEPP) **Theory Seminar**

# A Tale of Higher Derivatives and the Kählerpotential



About 5 years ago when I started my Ph.D. we should soon discover a potential alpha'^2-correction to the Kählerpotential in four dimensions whose faith has been under investigation ever since. I will review the novel insights to the staring point to this quest namely higher derivatives in 10d/11d, and will draw resulting conclusions to the correction to the Kählerpotential in 3d/4d. Shall this be the end of the story? Come and see for yourself! Furthermore, I will discuss other potential alpha'-corrections to the scalar potential in 4d.

### Matthias Weissenbacher

Tokyo U., IPMU & Munich, Max Planck Inst.

## Special Day

#### **Tuesday September 5th, 2017** 2:00pm *401 Physical Sciences Building*

LEPP, the Cornell University Laboratory for Elementary-Particle Physics, and CHESS resources have merged, and a new lab (CLASSE), has formed. LEPP's primary source of support is the National Science Foundation. Visit us at www.lepp.cornell.edu