המחלקה למתמטיקה, בן-גוריון

קולוקוויום

ביום שלישי, 18 ביוני, 2024,

בשעה *14:30 – 15:30*

ב*Math -101*

ההרצאה

and manfiolds hyperkahler of Automorphisms groups hyperbolic of geometry fractal

תינתן על-ידי

(IMPA) Verbitsky Misha

תקציר: A hyperkahler manifold is a compact holomorphically symplectic manifold
We are interested in hyperkahler manifolds of maximal holonomy,
that is ones which are not flat and not decomposed as a product after passing to
s finite covering.
The group of automorphisms of such a manifold has a geometric interpretation:
it is a fundamental group of a certain hyperbolic polyhedral space. I will explain
how to interpret the boundary of this hyperbolic group as the boundary of the
ample cone of the hyperkahler manifold. This allows us to use the fractal geometry
of the limit sets of a hyperbolic action to obtain results of hyperkahler geometry.