המחלקה למתמטיקה, בן-גוריון

קולוקוויום

ביום שלישי, 31 בדצמבר, 2019

בשעה 14:30 – 14:30

ב101- Math

ההרצאה

mathematics bicycle of Flavors

תינתן על-ידי

University) State (Penn Tabachnikov Sergei

a is bicycle a motion: bicycle of model naive a concerns talk This הקציר: is end rear the of velocity the that so move can that length fixed of segment rich quite is model simple this Surprisingly, segment. the with aligned always integrable completely including research, of areas several with connections has and upon: touch to hope I that problems of sampler a is Here systems.

bicycle the of position initial the and wheel front the of trajectory The (1 map monodromy the position; terminal its and motion its determine uniquely Moebius a is mapping This arises. one terminal the to position initial the sending dynamical and geometrical various has that fact remarkable a transformation, consequences.

uniquely motion of direction the of choice a and track wheel rear The (2 yields opposite, the to direction the changing track; wheel front the determine (Backlund, bicycle the by related are tracks front two These track. front another

on system dynamical time discrete a defines which correspondence, Darboux) related closely is it and integrable completely is system This curves. of space the filament the system, dynamical integrable completely studied, well another, with equation. induction) local ring, smoke binormal, (a.k.a

the way which tell one can bicycle, a of tracks front and rear the Given (3 of description The cannot. one sometimes but can, one Usually, went? bicycle Ulam's with related intimately problem, open an is tracks tire ambiguous these body only the ball round the is two): dimension (in theory flotation in problem the to related also is problem This positions? all in equilibrium in floats that the that out turns It kind. special a of field magnetic a in charge a of motion equation. filament the of version planar the of solitons are solutions known