

Bu sene 26. sı yapılan <http://gokovagt.org/2019/index.html> konferansında dinlediğim ve kafamı allak bullak edip aklımı çeviren, ve beni hayretler içinde bırakarak sonunda güneş çarpması gibi yapan bir konuşmadan bahsedeceğim:

**Ernesto
Lupercio**

Self Organized Criticality and Tropical Geometry
In this talk I will explain how to apply tropical geometry to obtain a continuous model for self-organized criticality.

Gayet kısa, mütevazı bir başlık ve abstract tan bakın neler çıktı:

Work in progress: SOC in Quantum Gravity (with R. López Vázquez)

The dichotomy between continuous and discrete models of our paper (already appearing in the biological models) has an important analogue in string theory: Iqbar-Vafa-Nekrasov-Okunkov have argued that, when we probe space-time beyond the scale α' and going below Planck's scale, the resulting fluctuations of space time can be computed with a classical cellular automaton (a melting crystal) representing quantum gravitational foam. Their theory is a three-tier system whose levels are respectively classical geometry (Kähler gravity), tropical geometry (toric manifolds) and cellular automata (a discrete melting crystal). The theory that we propose in this paper is also a three-tier system whose levels are classical complex algebraic geometry, tropical geometry (analytic tropical curves) and cellular automata (sandpiles). This seems to be not a coincidence and suggests deep connections between our model for SOC and their model for quantum gravitational foam.

We have progressed by proving so far that, at the level of partition functions:

$$Z_{\text{Sandpile}} = Z_{\text{IVNO}}$$

by using the Temperley bijection for the dual graph, and only for the hexagonal tiling, etc...

that is a whole other talk... Next time.

Konuřmacı taaa Meksikadan gelmiř ve **“Gökova konferansları benim hayatıma çok řeyler katmıřtır, ona borcum büyüktür, nihayet burada olmaktan çok mutluyum”** diyerek konuřmasına bařladı. Bizler ise (buna RTE de dahil...!) hala Selman ve GGTE yi görmemezlikten gelmekte ısrarlıyız...

Gökova resimlerimi řu linkten görebilirsiniz:

(Dikkat edin, Selman göbeęini içeri çekiyor...)

<https://drive.google.com/file/d/1sAjCCkltkl4C0Ck7JNyk7NqX-aZevQd3/view?usp=sharing>