Institut Ruđer Bošković
ZAVOD ZA TEORIJSKU FIZIKU
Bijenička c. 54
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SEMINAR ZAVODA ZA TEORIJSKU FIZIKU

(Zajednički seminari Zavoda za teorijsku fiziku,
Zavoda za eksperimentalnu fiziku i Zavoda za teorijsku fiziku PMF-a)

Geometric origin of scaling in large traffic networks

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Vrijeme : **14:00 sati c.t.**
Mjesto: IRB, predavonica III krila

Sažetak:

A number of papers in the last decade studied properties of big traffic networks. Understanding such networks is important not only due to their socio-economic importance, but also because epidemics and invasive species are transmitted through them. Most studies have found nonlinear scaling of strength with degree with exponent around 3/2. We present a simple model, based on robust assumptions, that reproduces the observed exponent as a function of space dimension.

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