

Workshop on Dynamical Systems
School of Mathematics, IPM, December 15-16, 2021

	9:00 - 10:00	10:00 - 10:30	10:30 - 11:30	11:30 - 12:00	12:00 - 12:30	12:30 - 15:30	15:30 - 16:30	16:30 - 17:00	17:00 - 18:00
Wednesday (Dec. 15, 2021)	1 & 2		3 & 4		5		Luzzatto		Talebi
Thursday (Dec. 16, 2021)	6 & 7		8 & 9		10		Luzzatto		Talebi

Stefano Luzzatto (ICTP)
Amin Talebi (IPM)

one-dimensional maps with physical measures
one-dimensional maps without physical measures

(two lectures)
(two lectures)

Number of talk	Papers	Speakers
1	Ghys, Variations of Poincaré's Recurrence Theorem, Chapter 9 in the book "The Scientific Legacy of Poincaré", Ed. Charpentier, et al, AMS, 2010.	Roxana Bagheri, Danial Kazemlou
2	F. J. Dyson, H. Falk, Period of a Discrete Cat Mapping, The American Mathematical Monthly, Vol. 99, No. 7, pp. 603-614 (1992)	Parsa Hosseini, Amirabbas Mohammadi
3	S. Luzzatto, P. Pilarczyk, Finite Resolution Dynamics, Foundations of Computational Mathematics 11(2):211-239 (2011)	Leila Anvari, Mobina Azimi, Firoozeh Abrishami
4	A proof of Mañé Theorem, Chapter III- section 5: Hyperbolicity in smooth maps In the book "One-Dimensional Dynamics" by W. de Melo and S. van Strien	Ata Tahoori
5	Cao, Luzzatto, Rios, A minimum principle for Lyapunov exponents and a higher-dimensional version of a Theorem of Mañé, Qualitative Theory of Dynamical Systems 5(2):261-273 (2004)	Amir Khodayan
6	R. Bowen, Markov Partitions are not Smooth, Proc AMS, Vol. 71, No. 1 pp. 130-132 (1978) J. Franks, Invariant sets of hyperbolic toral automorphisms, Amer. J. Math. 99, 1089-1095. (1977)	Maral Hatamizadeh, Ramezanzadeh
7	W. Tucker, D. Wilczak, A rigorous lower bound for the stability regions of the quadratic map Physica D: Nonlinear Phenomena, Volume 238, Issue 18, Pages 1923-1936 (2009)	Abolfazl Chaman Motlagh
8	A. Golmakani, C. E. Koudjina, S. Luzzatto, P. Pilarczyk, Rigorous numerics for critical orbits in the quadratic family, Chaos: An Interdisciplinary Journal of Nonlinear Science 30:7, pages 073143. (2020)	Ali Aledarvish
9	J. Guckenheimer, Sensitive dependence to initial conditions for one-dimensional maps, Comm. Math. Phys. 70(2): 133-160 (1979)	Hadi Azizi
10	A. Talebi, Statistical (in)stability and non-statistical dynamics, 32 pages, (2020) https://arxiv.org/pdf/2012.14462	Mojtaba Zare