

MINI COURSE

**Some simple results and questions concerning
cohomology of dynamical systems**

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SCHEDULE:	Lecture 1: Tuesday, Feb. 7, 2017, 9:30–10:45
	Lecture 2: Tuesday, Feb. 7, 2017, 11:00–12:15
	Lecture 3: Thursday, Feb. 9, 2017, 9:30–10:45
	Lecture 4: Thursday, Feb. 9, 2017, 11:00–12:15
VENUE:	Lecture Hall 2, IPM Niavaran Bldg., Niavaran Square, Tehran

Abstract. We will start by reviewing classical results of Gotzchalk-Hedlund and Livsic theorems. After that, we will consider recent extensions into a nonlinear setting, as well as some interesting applications.

References

- [1] D. Coronel, A. Navas, M. Ponce, On bounded cocycles of isometries over minimal dynamics. *J. Mod. Dyn.* 7 (2013), no. 1, 45–74.
- [2] A. Navas, Sur les rapprochements par conjugaison en dimension 1 et classe C^1 . *Compos. Math.* 150 (2014), no. 7, 1183–1195.
- [3] A. Navas, M. Triestino, On the invariant distributions of C^2 circle diffeomorphisms of irrational rotation number. *Math. Z.* 274 (2013), no. 1-2, 315–321.
- [4] A. Kocsard, On cohomological C^0 -(in)stability. *Bull. Braz. Math. Soc. (N.S.)* 44 (2013), no. 3, 489–495.