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Kanji INUI*, Grad. Sch. of Human and Environmental Studies, Kyoto university,
Yoshida-nihonmatsu-cho, Sakyo-ku, Kyoto, 606-8501, Japan. *Non-autonomous iterated function
systems and fractals*. Preliminary report.

The limit sets (for short, fractals) generated by iterated function systems (for short, IFSs) with finitely many contractive mappings have been well-studied. On the other hand, the fractals generated by non-autonomous IFSs also have been studied little by little. Note that the most of the studies in the non-autonomous IFSs consider the IFSs generated by the functions defined on some bounded set, which deduces that the fractals are always uniformly bounded with respect to the base points. In this talk, we consider the non-autonomous IFSs generated by the functions defined on complete metric space and we show the existence of the fractals (which are not uniformly bounded with respect to the base points in general) generated by the non-autonomous IFSs. Moreover, we also consider the non-autonomous IFSs with a weight defined on a complete separable metric space and we show the existence of the limit (probability) measures generated by the non-autonomous IFSs with the weight. In addition, we discuss some basic properties of the fractals and the measures. (Received September 07, 2019)