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Shohei Nakamura* (pokopoko9131@icloud.com), Tokyo, Japan. *Recent development of the weight theory on Morrey spaces.* Preliminary report.

A weight theory is one of important topic on the theory of function spaces and investigated actively. A weight theory on L^p spaces is now well established (Of course, some problems still remain). Meanwhile, we have several generalizations of L^p spaces, especially we will focus on Morrey spaces. It is well known that many facts on L^p spaces can be generalize to Morrey setting in many cases. However, this is not the case when we consider a weight theory because of the structure of Morrey spaces and there is no complete answer even when one weight setting for Morrey spaces. In this talk, we will give recent developments of this problem, one weight theory on Morrey spaces. (Received December 02, 2016)