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タイトル TITLE	Homotopy theory of A_n -spaces in Lie groups		
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An A_n -space is a topological space equipped with a continuous unital binary operation satisfying certain higher homotopy associativity conditions depending on $n = 1, 2, \dots, \infty$. Similarly, we can also define several versions of higher homotopy commutativities of A_n -spaces. Lie groups are basic examples of A_∞ -spaces. The speaker has been working on problems in homotopy theory of A_n -spaces in Lie groups.

In this talk, we will review the basics of higher homotopy associativity and commutativity and the results in Lie groups especially related to higher homotopy commutativity.