タイトル	Structure and representation theory of some affine \mathcal{W} -		
TITLE	algebras		
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In the study of conformal field theory and string theory, vertex operator algebras (VOAs) play a fundamental role as the mathematical foundation for the concept of chiral algebras. One of the most important families of vertex algebras are affine vertex algebras and their associated W-algebras, which are connected to various aspects of geometry and physics. Recently, the affine W-algebras associated to the subregular nilpotent element $W^k(\mathfrak{g}, f_{sub})$ have attracted a lot of interest. In this talk I will introduce some basic notions in the theory of vertex algebras and present some recent results about the structure and representation theory of certain subregular W-algebras at integer levels.