1009-17-85 **Drazen Adamovic*** (adamovic@math.hr), Department of Mathematics, University of Zagreb, Bijenicka 30, 10 000 Zagreb, Croatia. Realization of certain admissible $A_1^{(1)}$ -modules.

We will present our recent results on a realization of certain irreducible modules for the affine Lie algebra $A_1^{(1)}$. These modules are constructed by using the theory of generalized vertex algebras associated to rational lattices. We will discuss a connection between our realization and W-algebras associated to the (1,p) models for the Virasoro algebra. In particular, we will demonstrate that the W(2,5) algebra with central charge -7 appears as a subalgebra of a vertex operator algebra of affine type. (Received August 08, 2005)