

# Vertex operator subalgebras of the lattice VOAS of rank one.

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**Abstract.** We study the vertex subalgebra  $V_{L_2}^{A_4}$  of the lattice VOA  $V_{L_2}$ . The rationality and  $C_2$ -cofiniteness of the orbifold vertex operator algebra  $V_{L_2}^{A_4}$  are established and all the irreducible modules are constructed and classified. This is a joint work with Chongying Dong.

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