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Jude L. Quintero* (jlquintero@randolphcollege.edu), 2500 Rivermont Ave., Box 612,
Lynchburg, VA 24503. *Finite Orbifolds of the Rank 2 Heisenberg Vertex Algebra $\mathcal{H}(2)$.*

It is well known that the full automorphism group of the Heisenberg Vertex Algebra $\mathcal{H}(n)$ is the orthogonal group, and the finite subgroups of the two-dimensional orthogonal group are either cyclic or dihedral. In this talk we calculate a minimal strong generating set of the rank 2 Heisenberg Vertex Algebra $\mathcal{H}(2)$ with respect to all finite subgroups of its own automorphism group. Our proof relies on constructing families of decoupling relations of all weights. (Received January 20, 2020)