1077-05-271 **Ibrahim Abdou Saleh\*** (iasaleh@math.ksu.edu), 2128 Prairie Glen Place, Manhattan, KS 66502. A non commutative cluster structure on some hyperbolic algebras. Preliminary report. In this talk, I will introduce a non-commutative cluster structure that is related naturally to some Hyperbolic algebras like Weyl Algebras, classical and quantized universal enveloping algebras of the Lie algebra  $sl_2$  and the quantum coordinate algebra of SL(2). Some properties of this structure will be presented. The cluster structure gives rise to some combinatorial data, called cluster strings, which are used to introduce a class of representations of Weyl algebras. Irreducible and indecomposable representations are also introduced from the cluster strings. (Received August 17, 2011)