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Elizabeth Jurisich* (jurisiche@cofc.edu), Mathematics Department, The College of Charleston, 66 George Street, Charleston, SC 29424, and **Ben L. Cox** (coxbl@cofc.edu). *Actions of a three-point algebra and semi-direct product on a Fock space*. Preliminary report.

We present a natural free field realization in terms of a beta- gamma system and the oscillator algebra of the three-point affine Lie algebra when $\mathfrak{g} = \mathfrak{sl}(2, C)$. We present a preliminary result of a semi-direct product “gauge algebra” acting on the Fock space of the three-point algebra. (Received September 13, 2016)