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A 'quantized Tits-Kantor-Koecher' algebra

We will discuss a Tits-Kantor-Koecher algebra arising from the extended affine Lie algebra of type A_1. Then we propose a quantum anologue of the Tits-Kantor-Koecher algebra by looking at the vertex operator construction over a Fock space. This is a joint work with Naihuan Jing.