1158-30-123 **Khang Tran*** (khangt@mail.fresnostate.edu), Department of Mathematics, California State University, Fresno, 5245 North Backer Avenue M/S PB108, Fresno, CA 93740-0001. Sequence of hyperbolic polynomials and its generating function.

We study the reality of zeros of various sequences of polynomials generated by a bivariate generating function G(t, z). In particular, if we expand a bivariate rational function G(t, z) where $1/G(0, 0) \neq 0$, as a power series in t, the coefficients could form a sequence of hyperbolic polynomials in z. In this case, we also look at the real interval where the union of all the sets of zeros of polynomials in this sequence is dense. (Received February 26, 2020)