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Universality of operator limits at the Laguerre hard edge. Preliminary report.

Random differential operator limits for the tridiagonal random matrix beta ensembles were conjectured by Edelman and Sutton. Rider and collaborators have given rigorous proofs for the stochastic Airy operator limit at the Hermite soft edge ($V(x) = x^2$) and stochastic Bessel limit at the Laguerre hard edge ($V(x) = x$). Furthermore they proved that the stochastic Airy operator is universal ($V(x)$ =convex polynomial). We will attempt to prove a universality theorem for the stochastic Bessel operator. Joint work with Brian Rider. (Received September 20, 2015)