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Quasisymmetry groups of dynamical gaskets.

I will discuss how to construct a large class of examples of post-critically finite (anti-)rational maps whose Julia sets are generalized gaskets. Such maps are parametrized by triangulations of the sphere and the construction relies on the Koebe–Andreev–Thurston theorem on circle packings as well as on W. Thurston’s characterization theorem for rational maps. The Julia sets here are homeomorphic to the limit sets of (extended) Kleinian groups generated by reflections in circles of the dual circle packings. Finally, I will discuss the quasisymmetry groups of the Julia sets of (anti-)rational maps that result from the construction, for a certain subclass of reduced triangulations. This is joint work in progress with Russell Lodge and Mikhail Lyubich. (Received January 27, 2019)