John Hamal Hubbard\* (jhh8@cornell.edu), Department of Mathematics, Malott Hall, Ithaca, NY 14853. A new entry in the Sullivan dictionary: Parabolic blowups, limits of dynamical systems and group actions.

Limits of a dynamical system  $f: X \to X$  should be thought of as the limit of all the iterates  $f^{\circ n}$ , in an appropriate Hausdorff topology. Similarly, the limit of a family of group actions should be thought of as the limit of the entire group, in the Chabauty topology. In the world of dynamics, this goes under the name of *parabolic implosion*; in the world of Kleinian groups, under the name *geometric limits*.

These may be quite different from the dynamical systems or group actions generated by the limits of the generators: they may be *enriched*. I will attempt to describe the space of enriched dynamical systems, as an appropriate projective limit of *parabolic blowups*. It is a complicated space, even if the original dynamical systems are just  $p_c: z \mapsto z^2 + c$ . But it is possible to compute its cohomology, and to describe parts as generalized continued fractions. (Received March 11, 2017)