

1143-60-30

**Zuopeng Fu\*** (fuzg@mail.uc.edu) and **Yizao Wang**. *A family of manifold-indexed fractional stable processes*. Preliminary report.

A new family of fractional stable processes was introduced. They are presented as special examples of a family of set-indexed stable processes, including the Gaussian case, which can be viewed as natural extensions of self-similar stable processes with stationary increments indexed by  $\mathbb{R}_+$ . A limit theorem is established for the general set-indexed stable processes, and a few other related examples are discussed. (Received June 28, 2018)