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Shuyang Bai* (bsy9142@uga.edu), **Takashi Owada** and **Yizao Wang**. *A non-central limit theorem on heavy-tailed chaos*. Preliminary report.

We introduce the partial-sum limit theorems for a class of stationary sequences exhibiting both heavy tails and long-range dependence. The stationary sequences are constructed using heavy-tailed multiple stochastic integrals and conservative null dynamical systems. The limits are represented by multiple stables integrals, where the integrands involve the local times of the intersections of stationary stable regenerative sets. This is a joint work with Takashi Owada and Yizao Wang. (Received August 09, 2018)