In this talk, I will discuss distributions with decay and their application to restriction problems. Specifically, many of the classical objects for which their exist restriction phenomena contain more structure, and this led us to formulate and prove a restriction problem with moments for the surface area measure on the unit sphere and the Frostman measure of Salem’s on the unit interval. Time permitting, I will also give some background that led us to work on these problems. All work is just with Gustavo Hoepfner of the Federal University of São Carlos (Brazil). (Received May 21, 2019)