

Wednesday, June 6<sup>th</sup>, 12:00  
BCAM Seminar room

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## DYNAMICAL SAMPLING - OR HOW TO BEAT SHANNON

The classic Cauchy-Shannon Sampling Theorem gives a precise estimate of the number of samples needed to completely recover a function. In this talk we will show that - if we consider a signal that evolves in time, and in addition to know the initial samples, we have access to samples at time  $t_1, t_2, \dots$ , we can actually sample on a subset of the original one and still recover the function completely.