Targeted upper limits

• Proposal:
  ››What is the rate upper limit of bursts from specific locations on the sky?
  ››Targeted upper limit better than all-sky limit by $(10 \text{ ms} / \Delta t)^{1/2}$
  ››Real goal: develop time-delay estimators with error $\Delta t \sim 0.1 \text{ ms}$

• Resources:
  ››Coherent power filter algorithm (Sylvestre)
  ››Cross-correlation statistics (Sylvestre, Weinstein, Cadonati)
  ››SURF student

• Related to:
  ››post-coincidence analyses
  ››triggered search