Energy-Saving Storage Systems
Sara Alspaugh and Arka Bhattacharya

- power management of disks at block device level
- hybrid system with SSD caching tier
- taxonomy of techniques:

  - Redundancy: reconstruct request from parity group on active disks and cache
  - Caching and Layout: keep less frequently accessed data on spun down disks, eject blocks to active disks
  - Multispeed Disks: adjust disk speed according to workload demands and performance requirements