A More Interactive TV

- Local Interaction:
  - Broadcast & Browsing, Games ***in the Box***

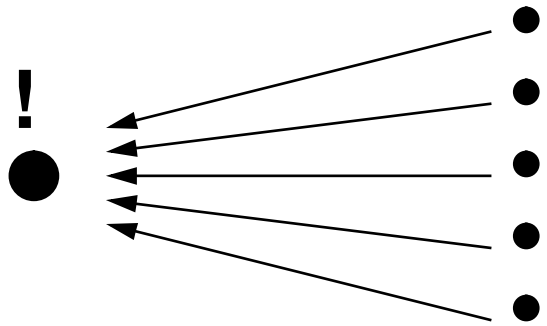
The presence of a feedback channel:

- Remote Interaction:
  - Broadcast & Browsing, Games ***in the Internet***
  - email, chat, conferencing, banking, shopping

- Interactive Broadcast ?
  - Online Voting
  - One out of the audience

Challenges for Broadcast Feedback

- **Feedback Implosion:**
  - Amount of feedback is proportional to the number of receivers

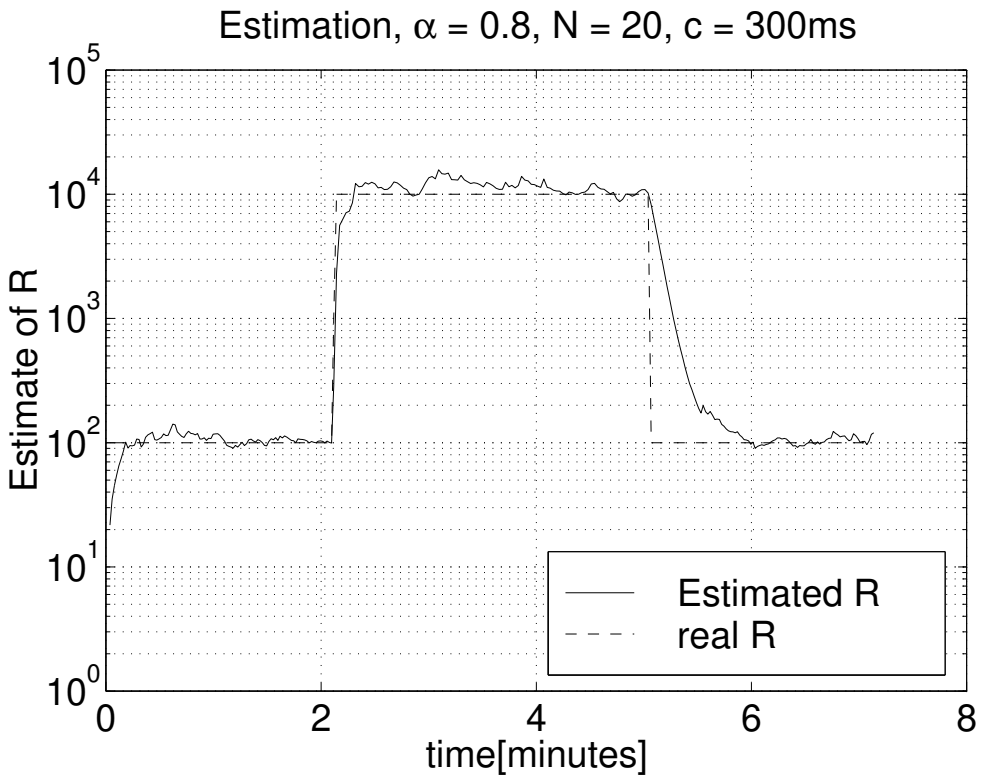


➥ ***Estimate the number of receivers***

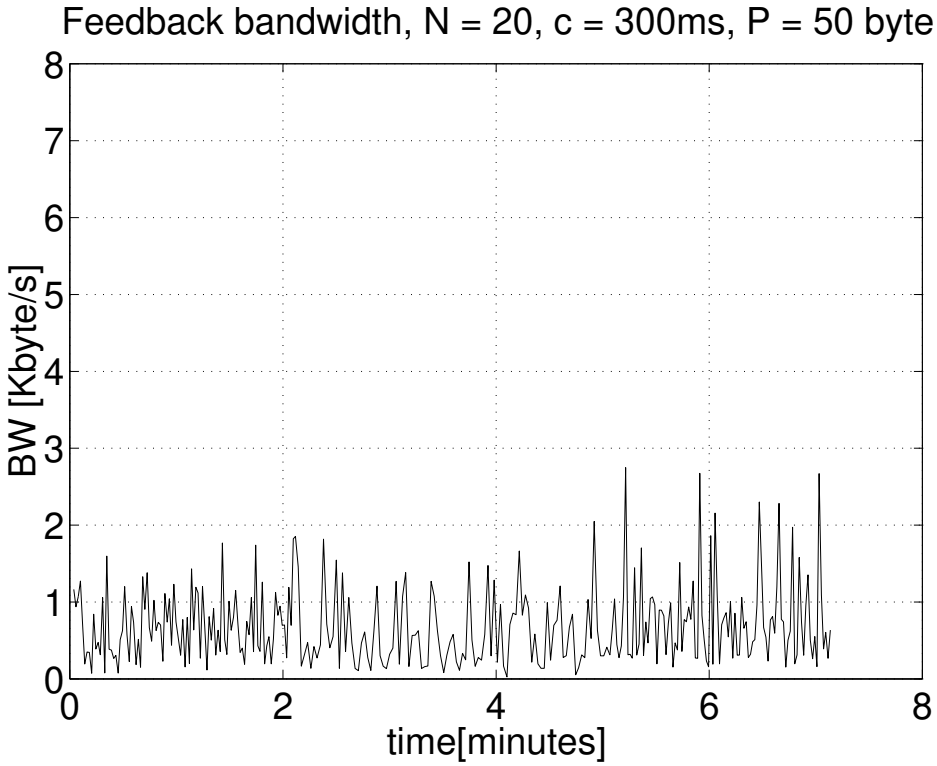
➥ ***Avoid Feedback Implosion***

Estimating the Number of Receivers *(patent)*

- Estimating a (sub-)population changing its size by order of magnitudes.



Receiver Estimate



Feedback Bandwidth

➥ ***Fast convergence & unaffected feedback bandwidth.***