Notes from Taped Lecture [redacted] 8/1/16 (afternoon)

Last Lecture for EE597

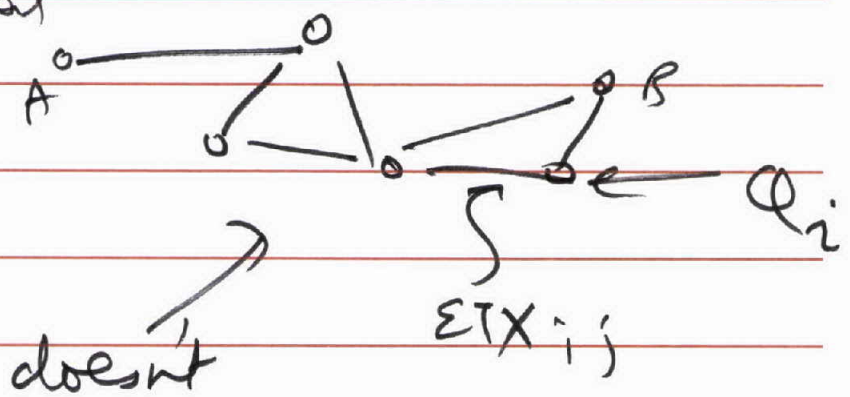
- No class on Wednesday
- Exam is on Monday 8/8 during class hours.

Intermittently connected Mobile Networks

- Wait Deliver
- Epidemic flooding
- Spray & wait

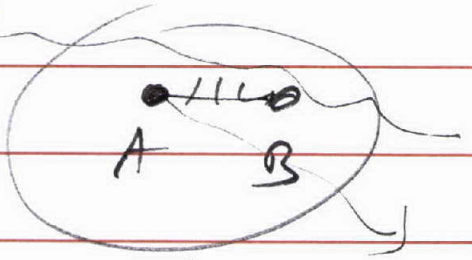
Methods to analyze ICMN protocols.

traditional static wireless networks



this doesn't work for ICMN

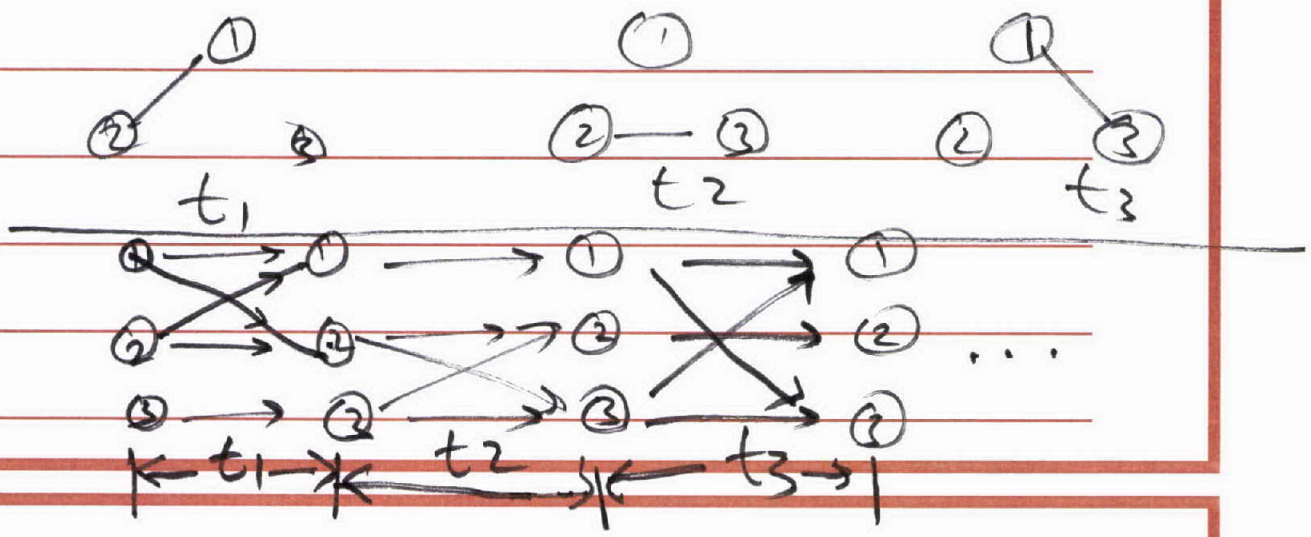
ETX not a useful metric for ICMN — can focus on high quality links during the encounter



implicitly we assume encounters are long enough to communicate content between two nodes in an ICMN. (equivalently, the amount of content is low).

In an ICMN, latency is dominated not by ETX, rather by the store time between receiving & forwarding a message.

If the mobility is predictable, can construct a trellis representation of all encounters:



Other approach: IID encounter model (random encounters)

Illustration: flooding: how long to flood a message to all nodes?

IID model:
at each time pick at random any 2 nodes out of the $\binom{n}{2}$ possible pairs to encounter each other