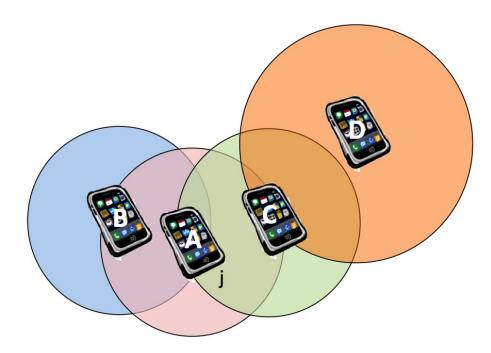
Multi-hop Ad Hoc Wireless Communication draft-baccelli-manet-multihop-communication-03 Emmanuel Baccelli Charlie Perkins

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Problems with IP links in spontaneous wireless networks

- Asymmetry
- Time-variance
- Non-transitivity
- Indefinite range



= AMBIGUOUS CONNECTIVITY

Consequences

- Concept of a "neighbor" becomes ambiguous
 - Affects "neighbor discovery protocol"
- Definition of a "link" is no longer as crisp
 - Affects the operation of protocols using "link-local" addresses
- Have to be very careful when advertising "subnet prefixes" (see for instance RFC 5889)
 - ICMP handling
 - What if the subnet gets "disconnected"?
- Did we mention "verrrrrry careful"???

Update

- Integrated comments from Robert Cragie
- Main change
 - Tightened/simplified terminology: now using a single term ``detect''
- WG document adoption?
- Next steps
 - Ralph Droms comment: highlight relevance to other types of spontaneous wireless networks (e.g., IoT networks considered in 6lo, Roll...)