

Of Waves

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Observation. *Waves are carriers of information, coordinates.*

Observation. *Given a wave burst emitted on an antenna, exactly one wave is read.*

A Definitions

Definition A.1. Wave Burst: The collection of waves emitted by the same trigger.

Example A.1. *Consider a click sound. Wave burst would be collection of waves emitted carrying the sound "click".*

B Open Problems

- Number of waves emitted per burst.
- Direction of waves emitted by a burst.¹

C Hypotheses

- Waves are carriers of information, an identifier.
 - Waves emitted by the same burst carry the same identifier.

D Further Observations

- Given a wave burst emitted on a multi-polar antenna, wave is read by pole closest to burst.²

¹For example emitted in a beam, spherical, random, etc..

²Experimentation required for the case of equally distant poles.