

# Of Waves

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[2022-05-14 Sat]

## 1 Observations

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

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

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

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Experimentation required for the case of equally distant poles.

## 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.<sup>1</sup>

## C Hypotheses

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

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<sup>1</sup>For example emitted in a beam, spherical, random, etc..