Echo algorithm with extinction

Each initiator starts a wave, tagged with its id.

Non-initiators join the first wave that hits them.

At any time, each process takes part in at most one wave.

Suppose a process p in wave q is hit by a wave r:

- if q < r, then p changes to wave r (it abandons all earlier messages);
- if q > r, then p continues with wave q (it dismisses the incoming message);
- if q = r, then the incoming message is treated according to the echo algorithm of wave q.

If wave p executes a decide event (at p), p becomes the leader.

Worst-case message complexity: $O(N \cdot E)$