**Algorithm: two sides relays decision**

1. Deciding the appropriate MCS (modulation and coding scheme) and threshold BLER.
2. Mapping the distance between each receiver and transmitter to the BLER of each receiver.
3. Depending on the mapping table of distance and BLER calculated before, the distances of receivers which BLER values satisfied the threshold value are selected.
4. The distance of the receiver satisfied the maximal distance is the relay.