

## **The cone percolation on $T^d$**

Valdivino Vargas Junior - UFG, Brazil

We study a rumor model from a percolation theory and branching process point of view. The existence of a giant component is related to the event where a rumor spreads out through an infinite number of individuals. We present sharp lower and upper bounds for the probability of that event, according to the distribution of the random variables defining the radius of influence of each individual.