

# **A modified Maki-Thompson model with directed inter-group interactions**

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## **Abstract:**

We propose a new extension for the Maki-Thompson rumor model which incorporates inter-group directed contacts. The model is defined on an homogeneously mixing population where the existence of two differentiated groups of individuals is assumed. While individuals of one group have an active role in the spreading process, individuals of the other group only contribute in stifling the rumor provided they would be contacted. For this model we measure the impact of dissemination by studying the remaining proportion of ignorants of both groups at the end of the process. Joint work with Pablo M. Rodríguez.