

Alliance for My Idol:

Analyzing the K-pop Fandom Collaboration Network

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Introduction: How a fandom interacts with other fandoms?

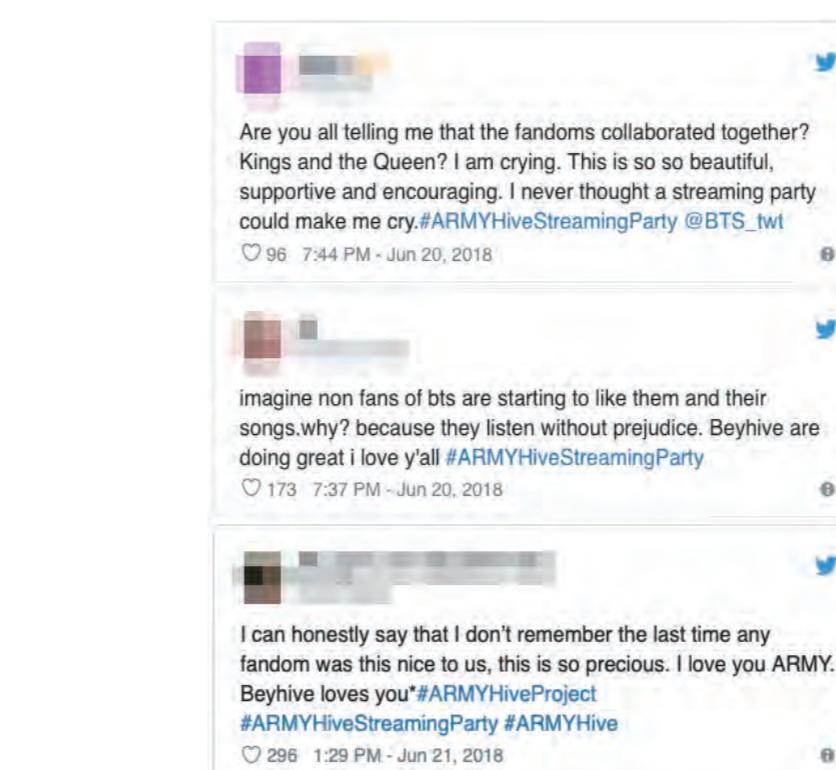
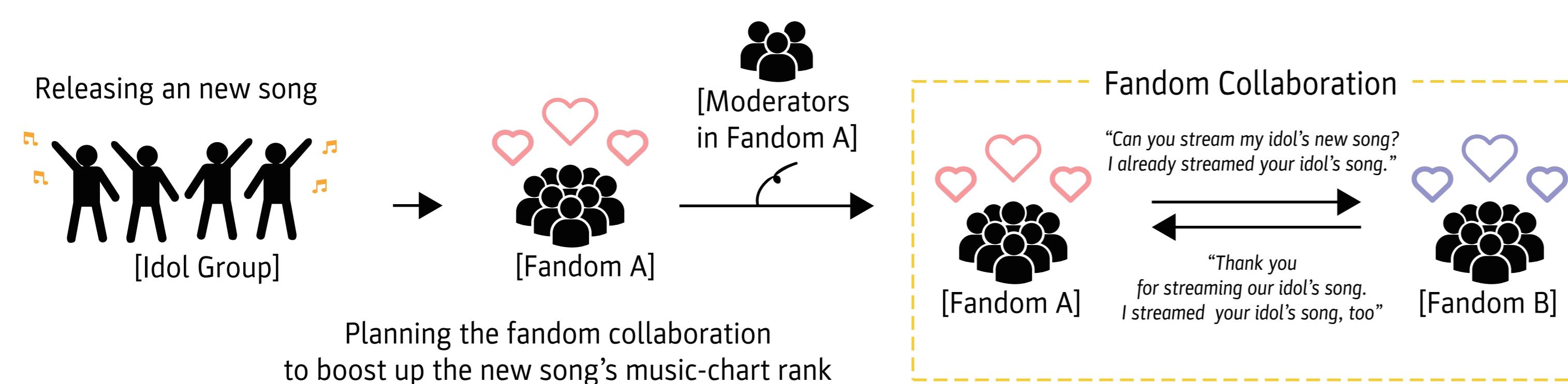


Fig: Examples of collaborative tweets:
BTS fandom → Beyoncé fandom

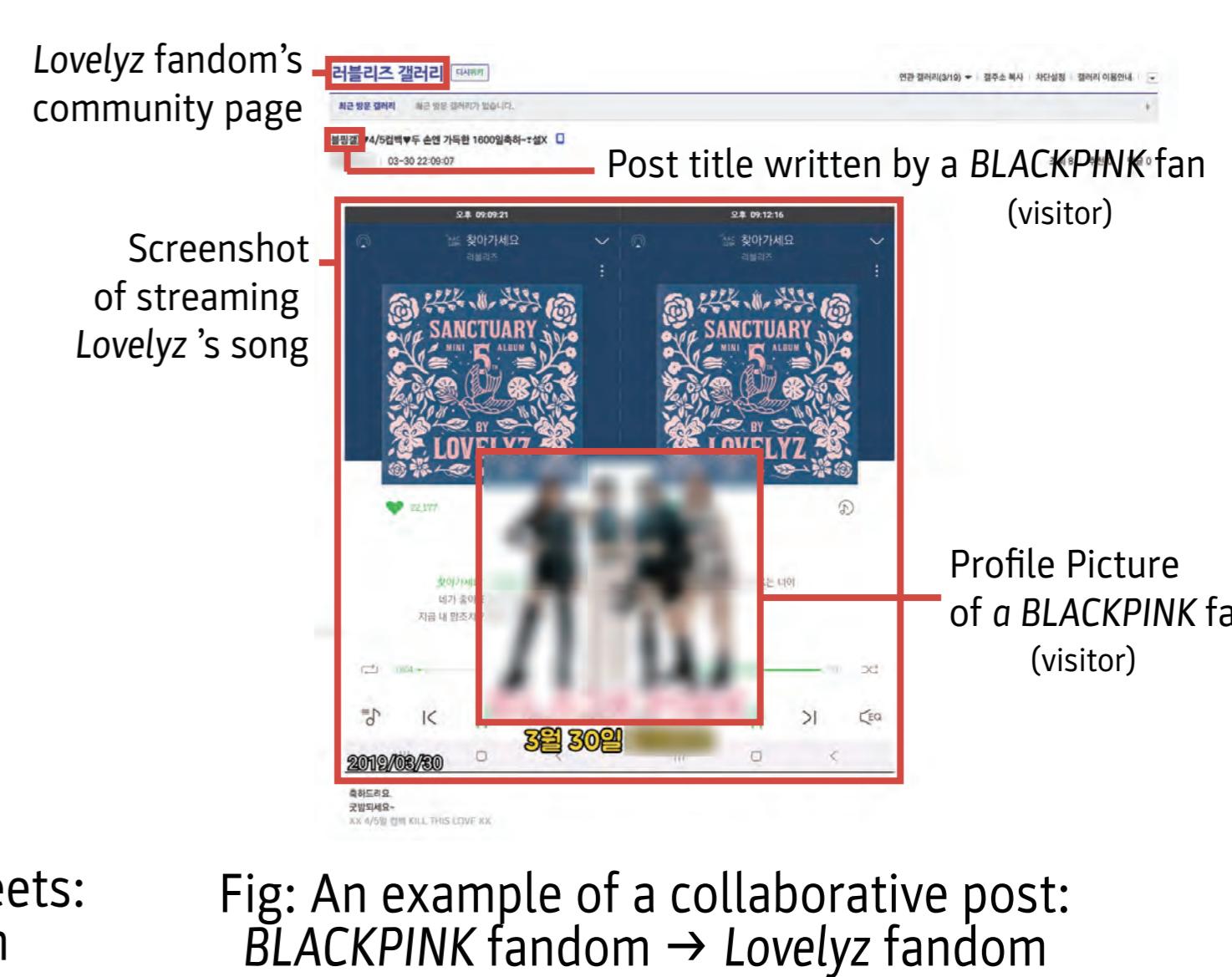


Fig: An example of a collaborative post:
BLACKPINK fandom → Lovelyz fandom

Fandom Activity Data & Fandom Collaboration Network

Dataset

Period	Jan. 1st ~ Nov. 25th 2018
Target Fandom	321 fan pages in DCinside
Post	18,817,412

Definition of Fandom Collaboration Network

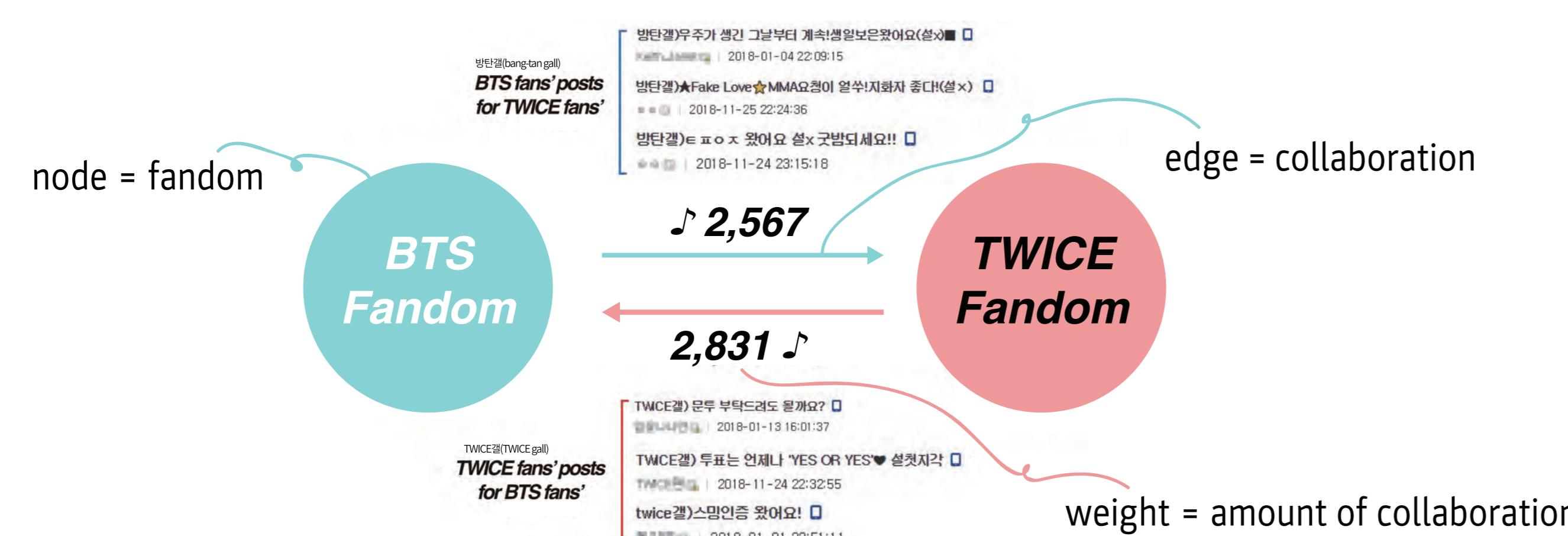


Fig: The links between the 'BTS' and 'TWICE' fandoms in the fandom collaboration network

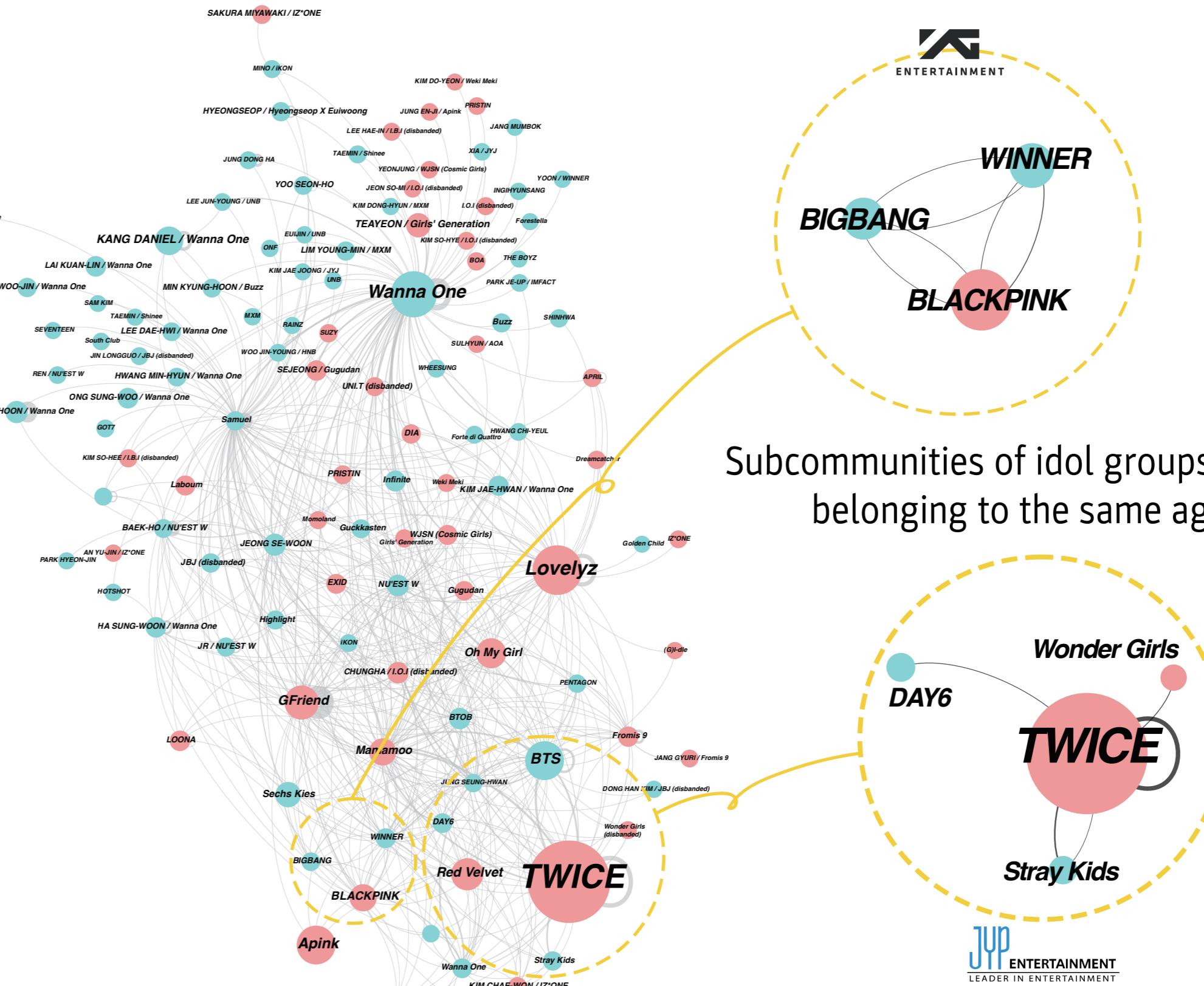
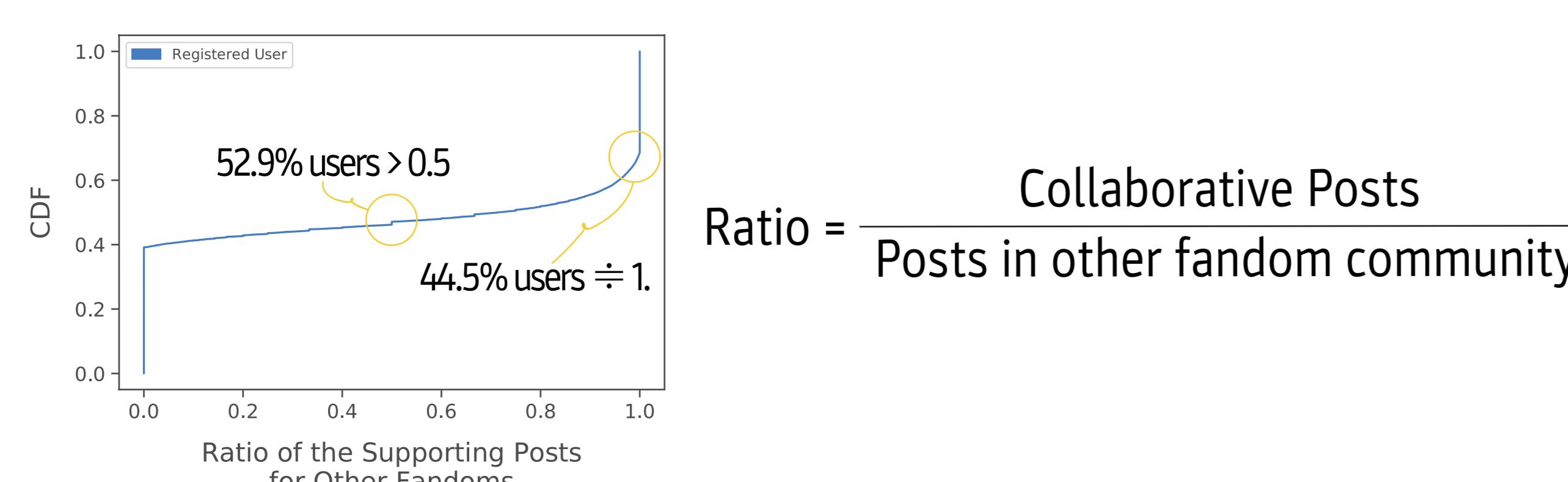


Fig: The fandom collaboration network with the top 1% weighted edges

Result

Q1. How prevalent is fandom collaboration in K-pop?



>> Many users actively participate in fandom collaborations

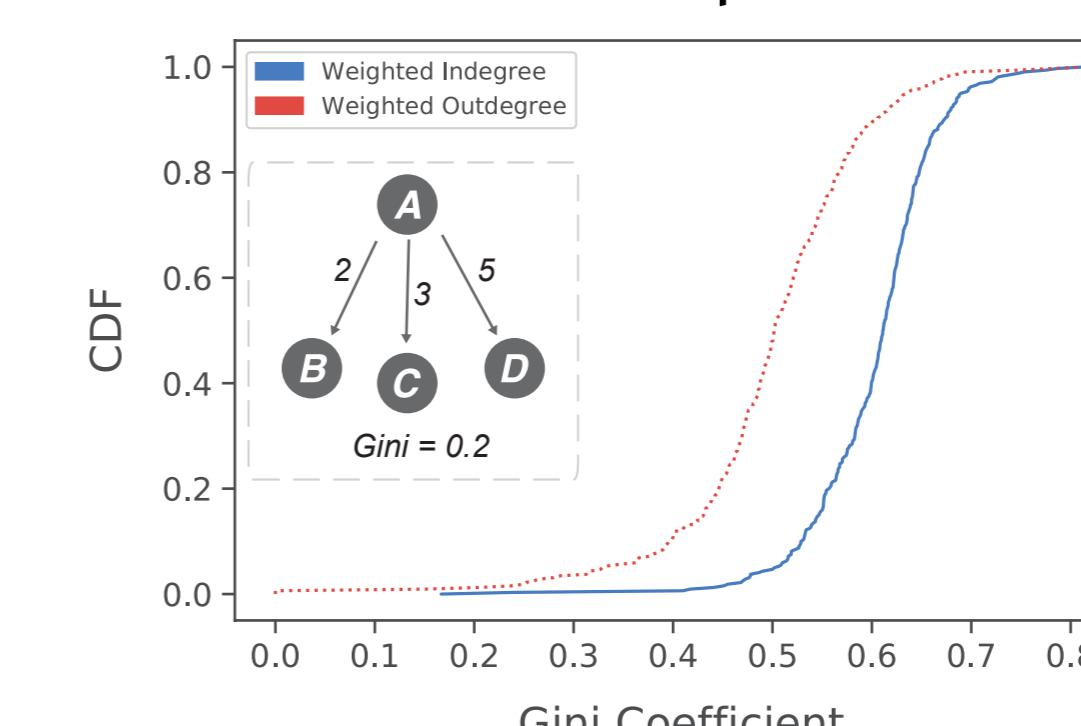
Q2. Do more active fandoms participate in more fandom collaborations?

Spearman rank correlation coefficient	
	# of posts
Weight Indegree	0.72***
Weight Outdegree	0.77***

>> The active fandoms → actively participate in the fandom collaborations

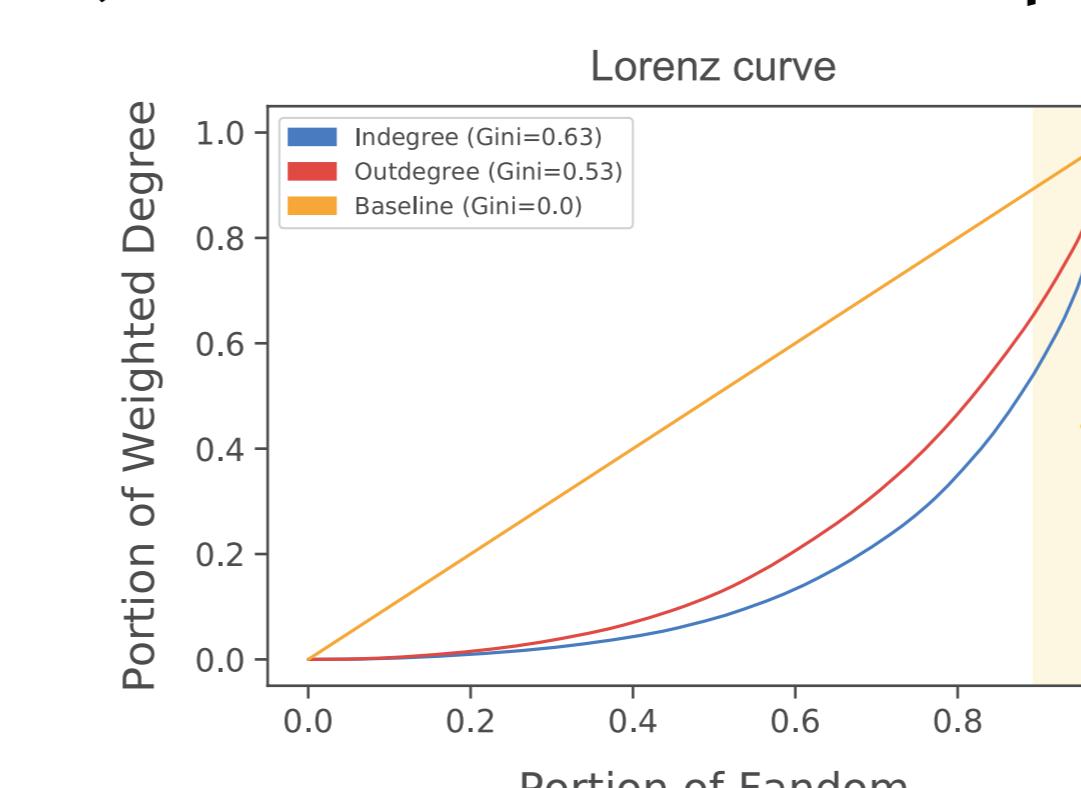
Q3. Are fandom collaborations reciprocal or parasocial?

>> 89.1% edges are bidirectional → Reciprocal Fandom collaborations



>> High Gini coefficient → Skewed Fandom Collaborations

Q4. Are there fandoms that play more roles in fandom collaborations?



>> TOP 10% Fandoms account for
· 42.4% weighted indegree
· 31.5 % weighted outdegree

Future Work

- Fan interview study
- External (seasonal) effect analysis / Hub & Community analysis