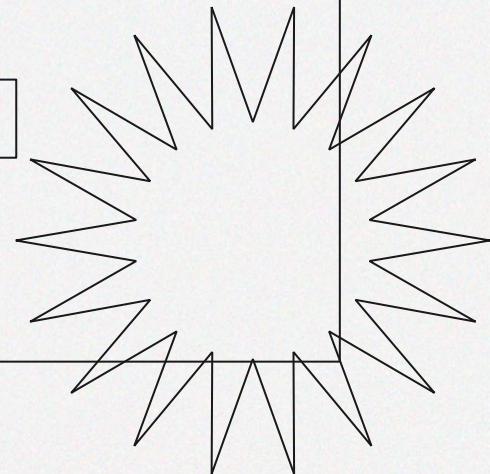


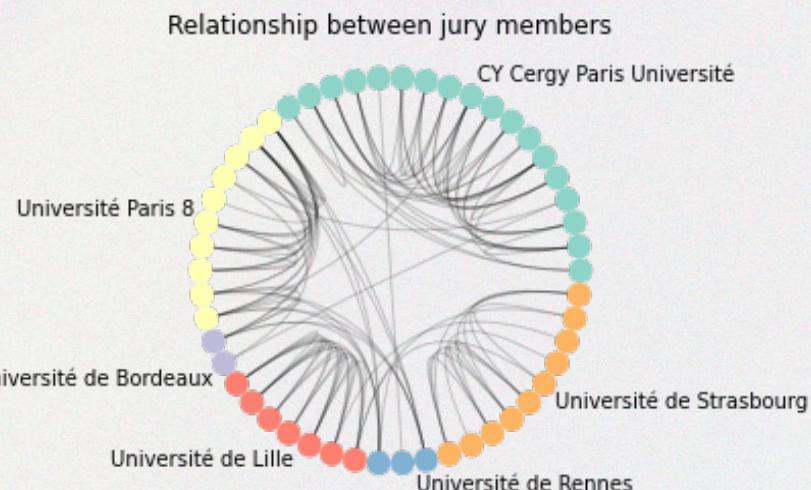
Social Network Analysis

French Higher Education edition

Buu NGUYEN



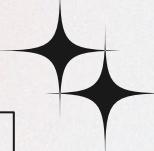
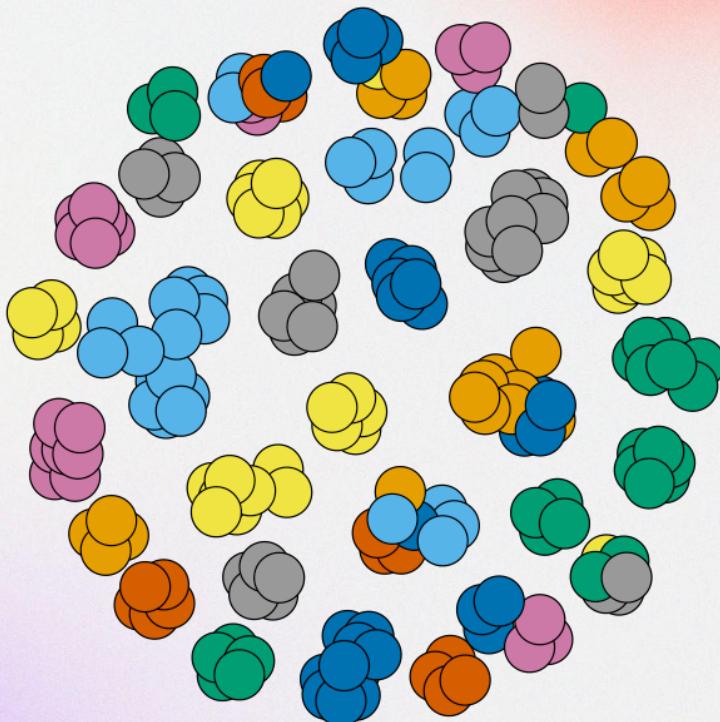
RESULTS ANALYSIS



- Most of the relationship is in the same University.
- There are numerous connections between **Université Paris 8** and **Université de Rennes**.

Internal jury members

Thesis' Internal Jury Network



RESULTS ANALYSIS

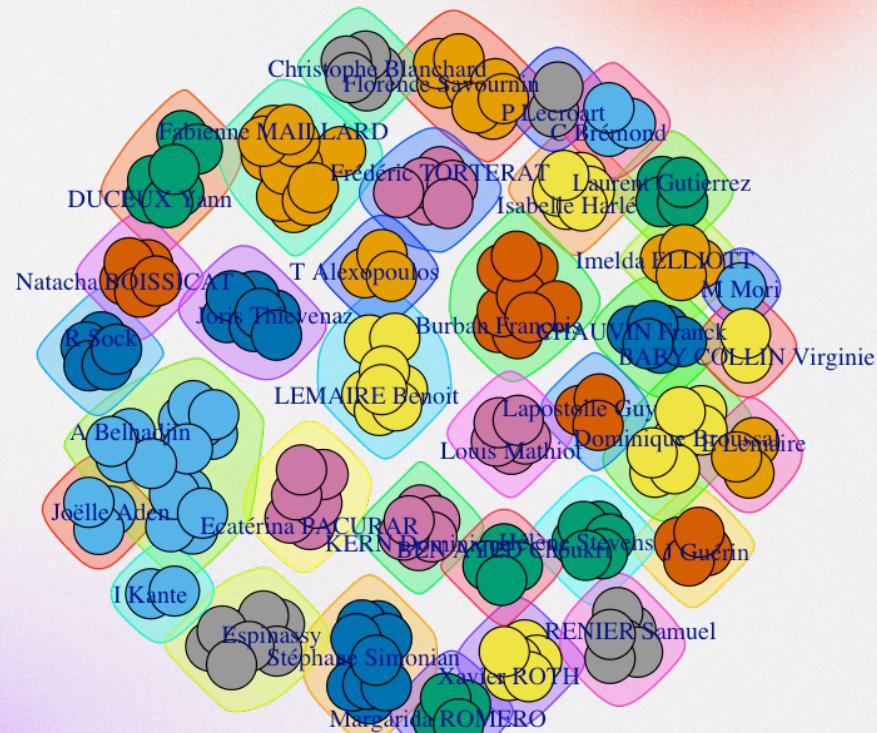


In the previous Figure, each color represents a different University. We can see that most of the clusters contain members of the same institute, which makes sense because we are analyzing the internal jury members.

The clusters containing members from different institutes need investigation to determine whether they are errors or fascinating phenomena.



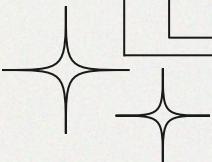
Thesis' Internal Jury Network



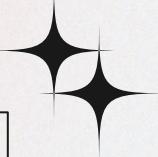
RESULTS ANALYSIS



We put the network through the Louvain Community Detection algorithm and achieved 36 clusters. Thus, it is close to the number of institutions in the network which is 38.



External jury members



X

External Thesis Jury Network

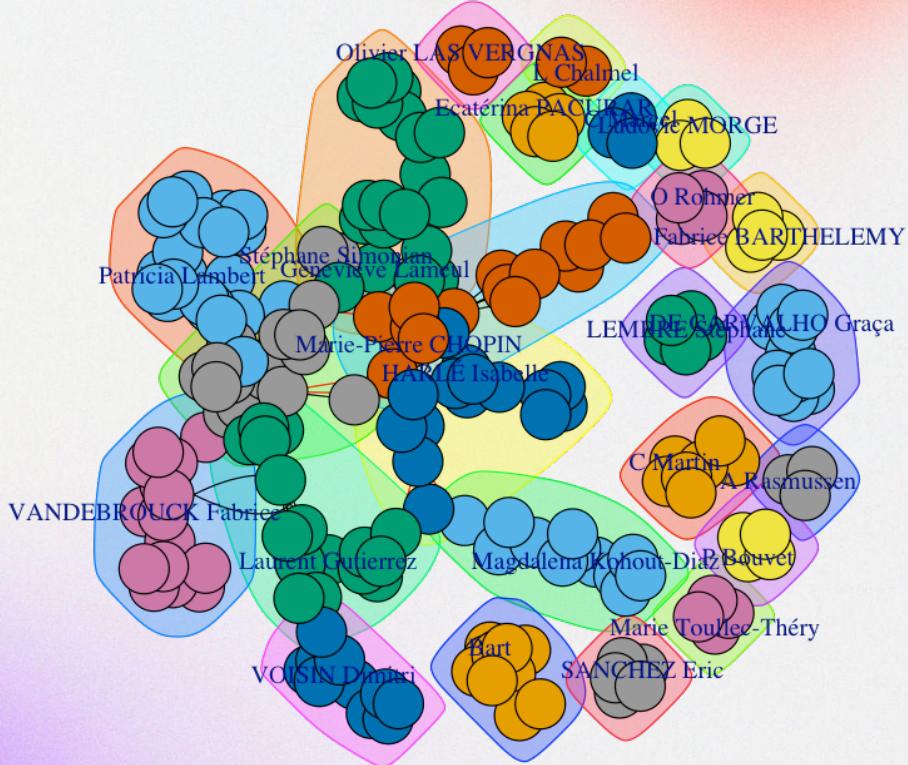


node color = community structure

node size = betweenness centrality



Thesis' External Jury Network

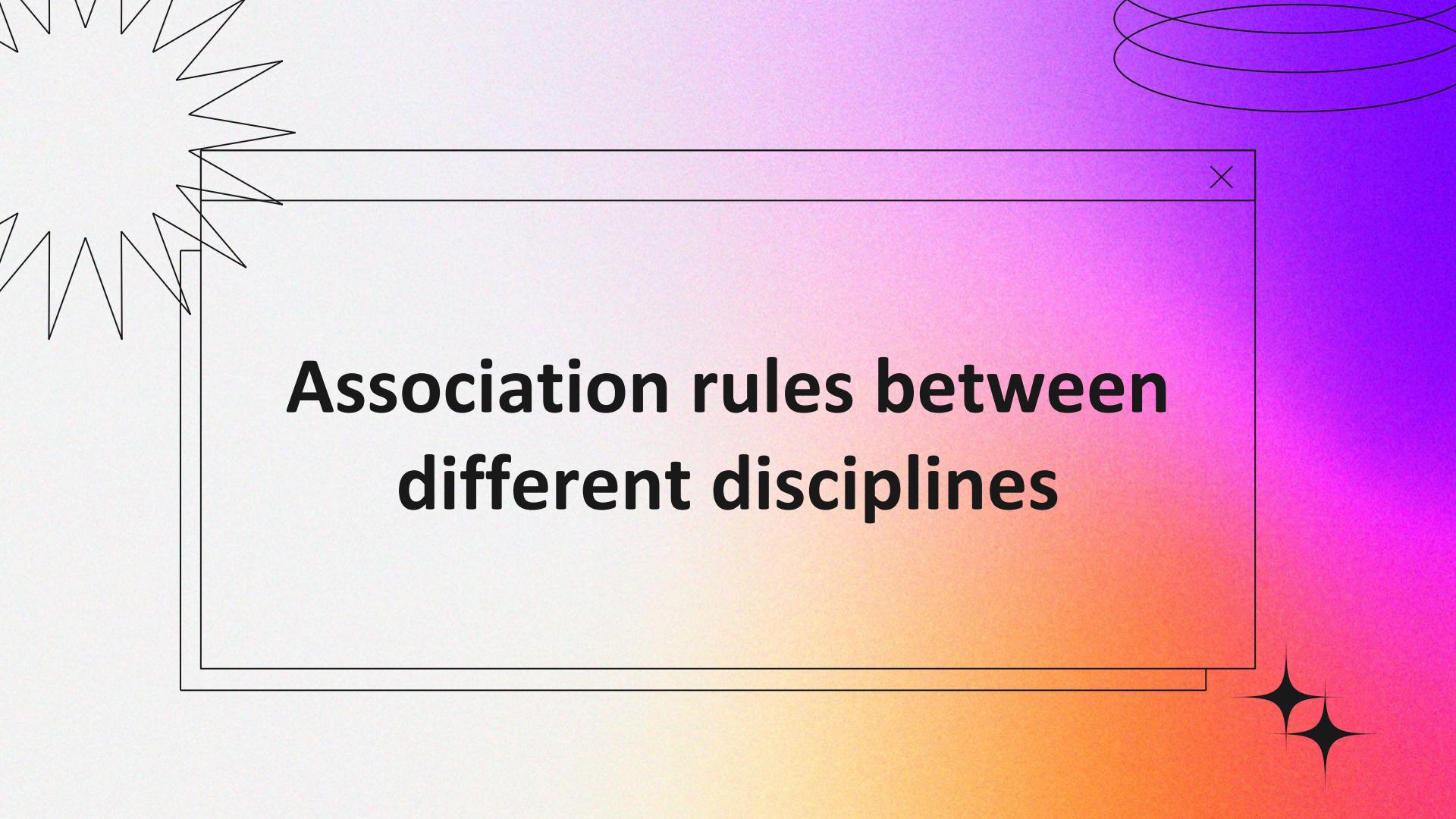


RESULTS ANALYSIS

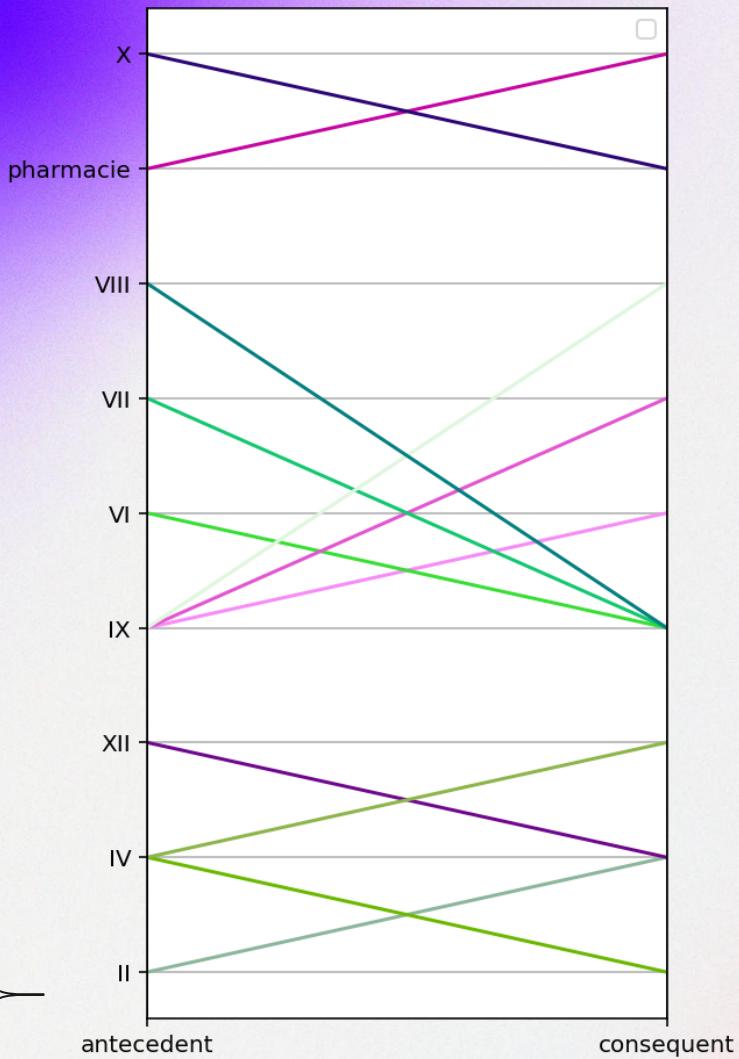


Unlike the internal network, the external one has more links between jury members, and we can not cluster quickly like with the internal network.

The Louvain Community Detection algorithm returns 24 clusters. Fifteen of them are not connected to other clusters. Nine other forms a huge linked network. In further studies, we will investigate members with the most centrality degree in this network.

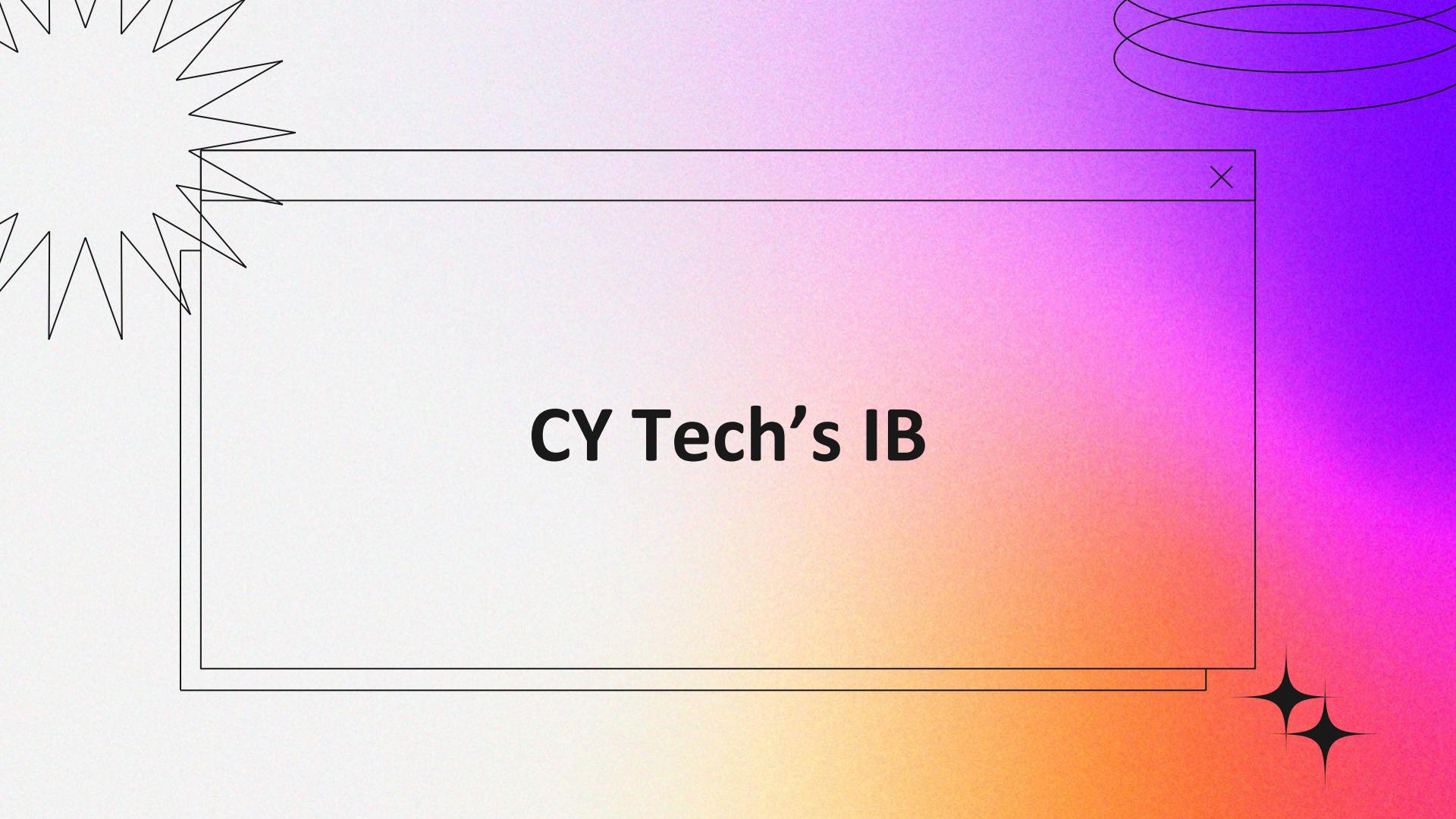


Association rules between different disciplines



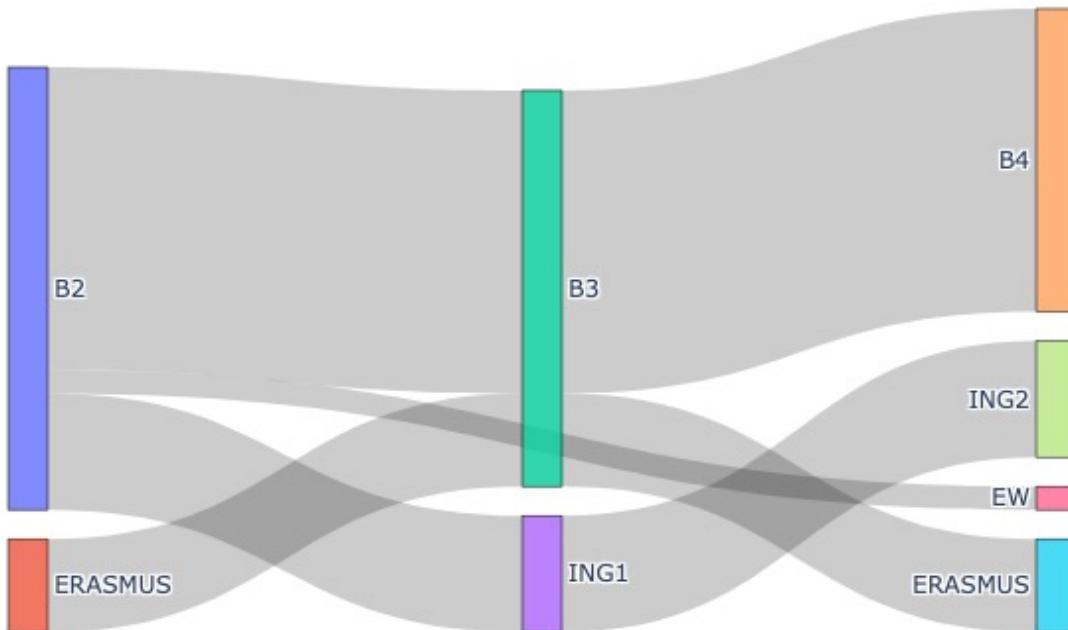
We have 3 groups of association rules:

- $X \rightarrow \text{Pharmacie}$
- $\text{IX} \rightarrow \text{VI}, \text{VII}, \text{VIII}$
- $\text{XII} \rightarrow \text{IV} ; \text{IV} \rightarrow \text{IXX}, \text{II} ; \text{II} \rightarrow \text{IV}$



CY Tech's IB

Academic route of IB program's students



RESULTS ANALYSIS

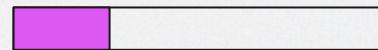


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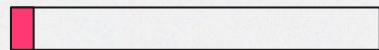
Stay in the
Bachelor
program

26%



Switch to the
Engineering
program

6%



Disappear

THANKS!

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