

Content Moderation in Presence of Fringe Platforms

Iván Rendo (TSE)



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- **Online** extreme/**unsafe content** bad *per se*, and:
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 - e.g. **20%** of terrorists radicalized **exclusively** online
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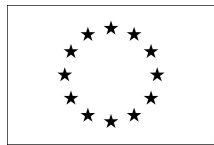


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Broad question: consequences of content moderation?

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- ➡ How **users choice** is affected by **content moderation policies**
- ➡ How the **level of unsafe content** is determined by **users choice**
- ➡ What incentives do platforms have to self-regulate?
- ➡ **Characterize the optimal regulation to minimize unsafe content**

Main Features of the Model

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- A **Moderated** one, higher quality platform: **moderates (bans) content**
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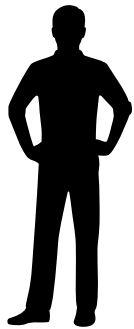
Twitter, Instagram

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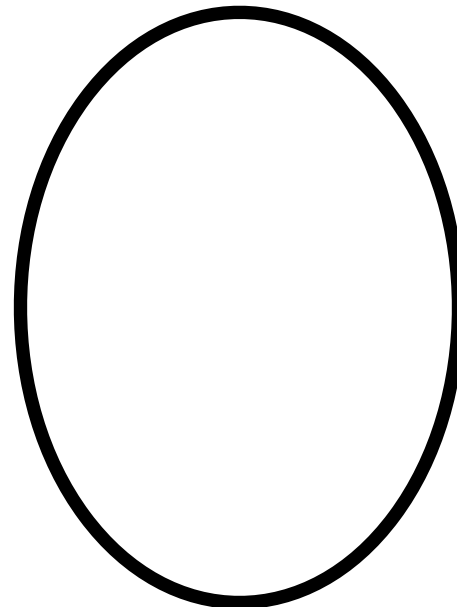
8Chan, Truth

Main User's Trade-off

Moderated Platform



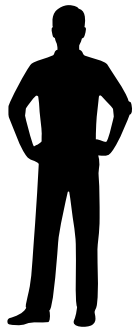
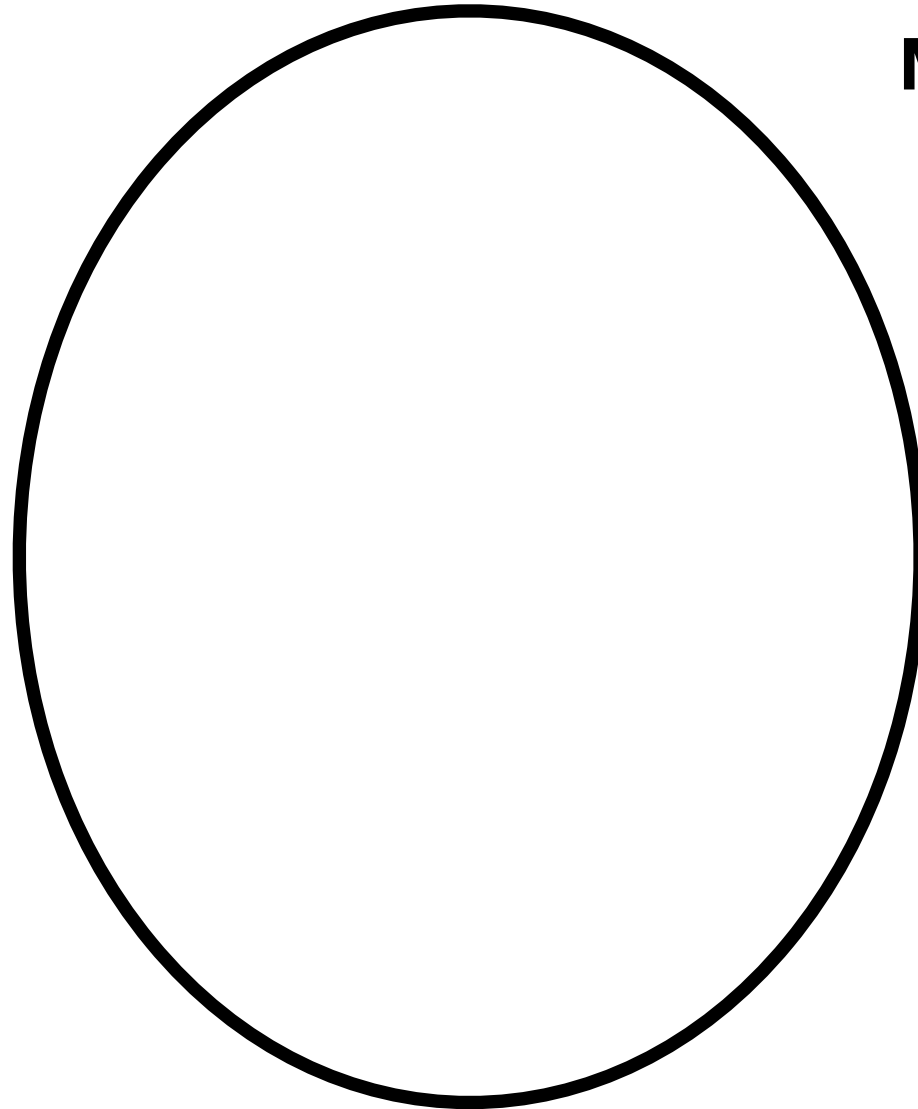
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User**



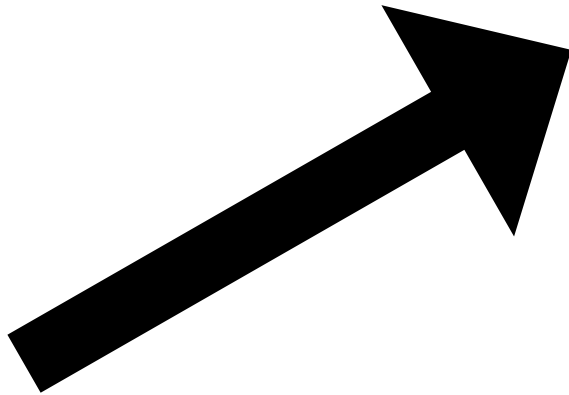
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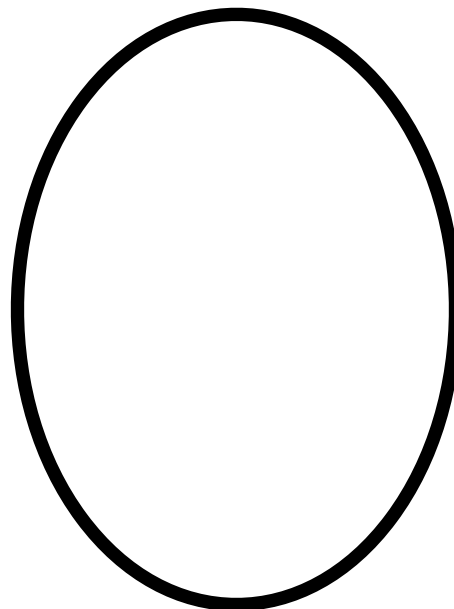
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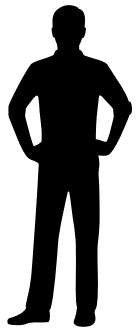
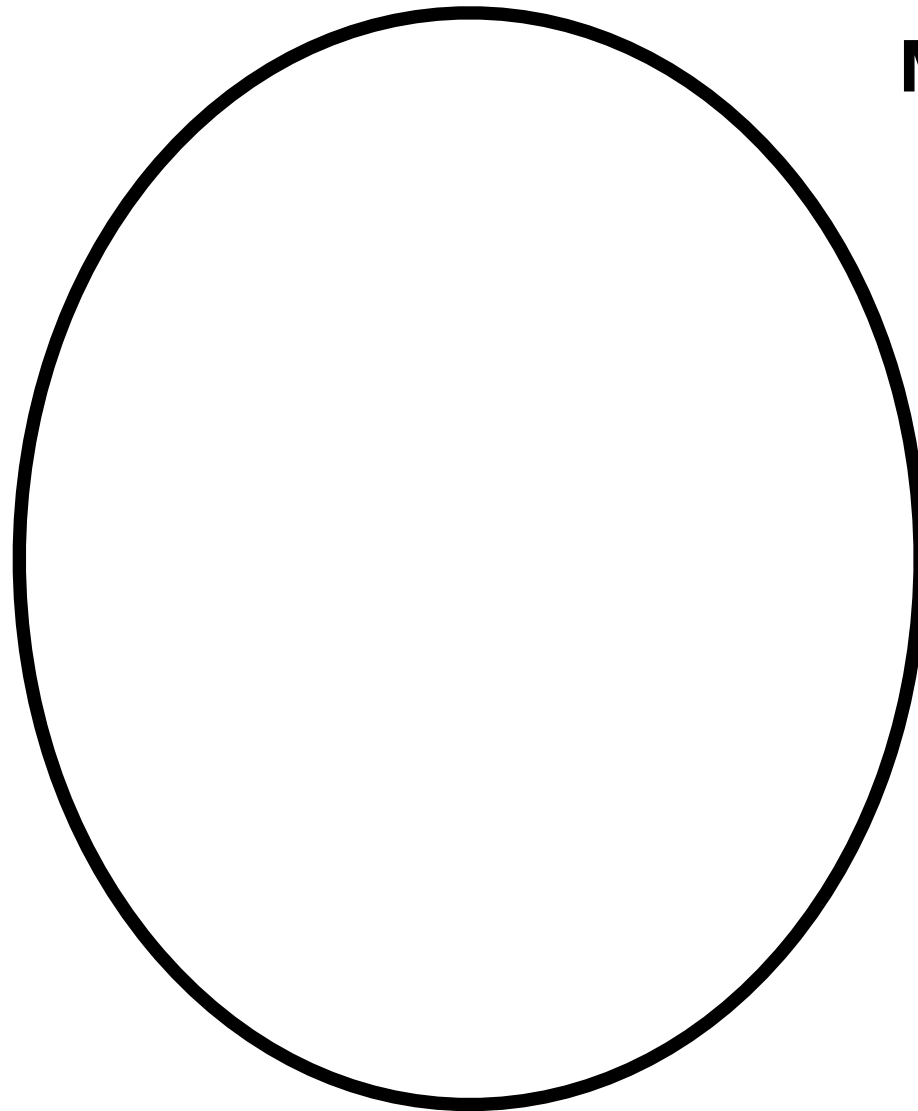


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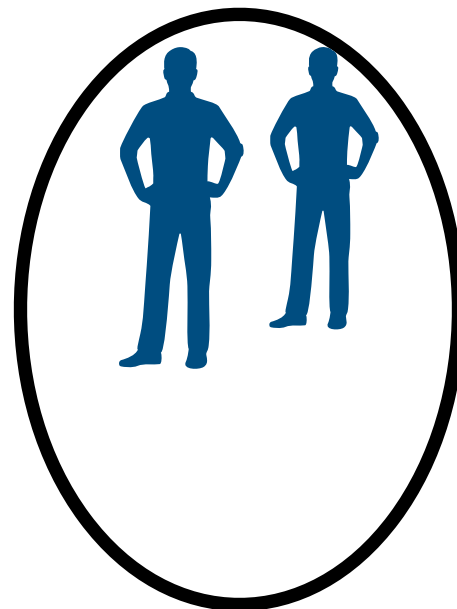
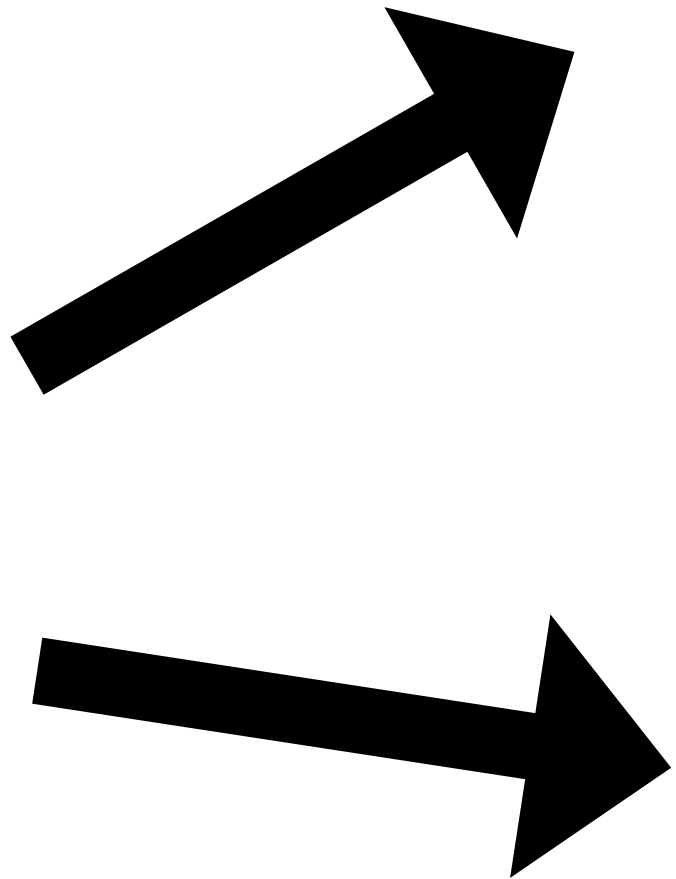


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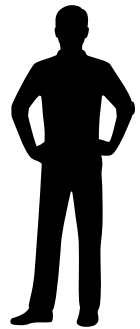
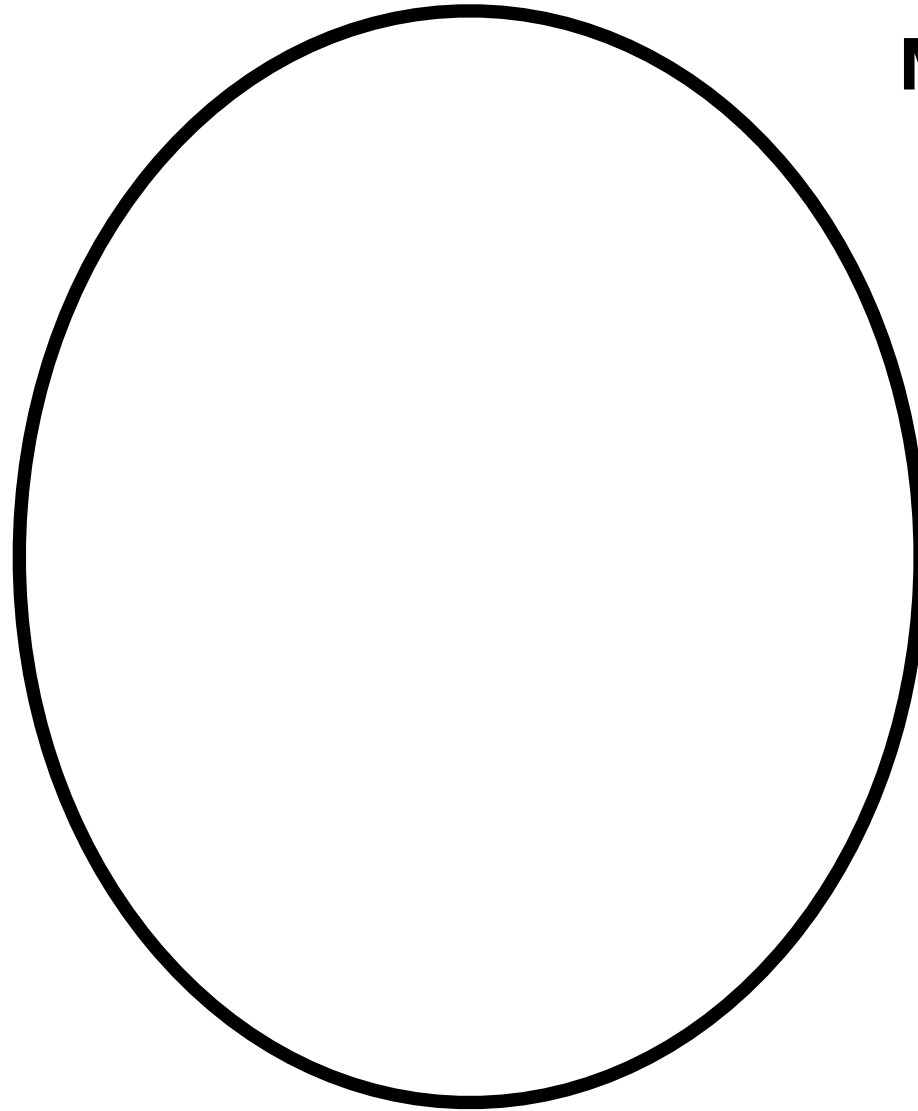


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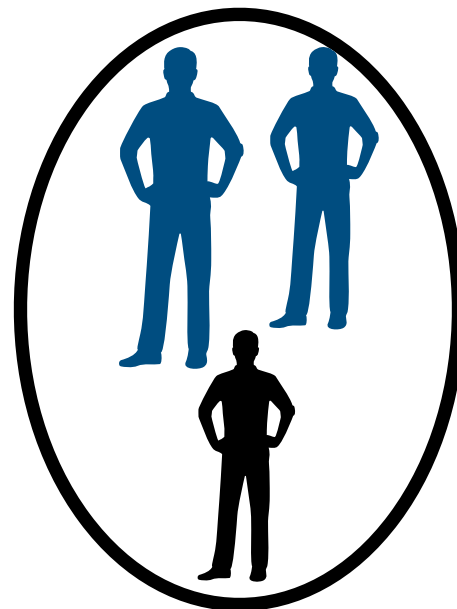
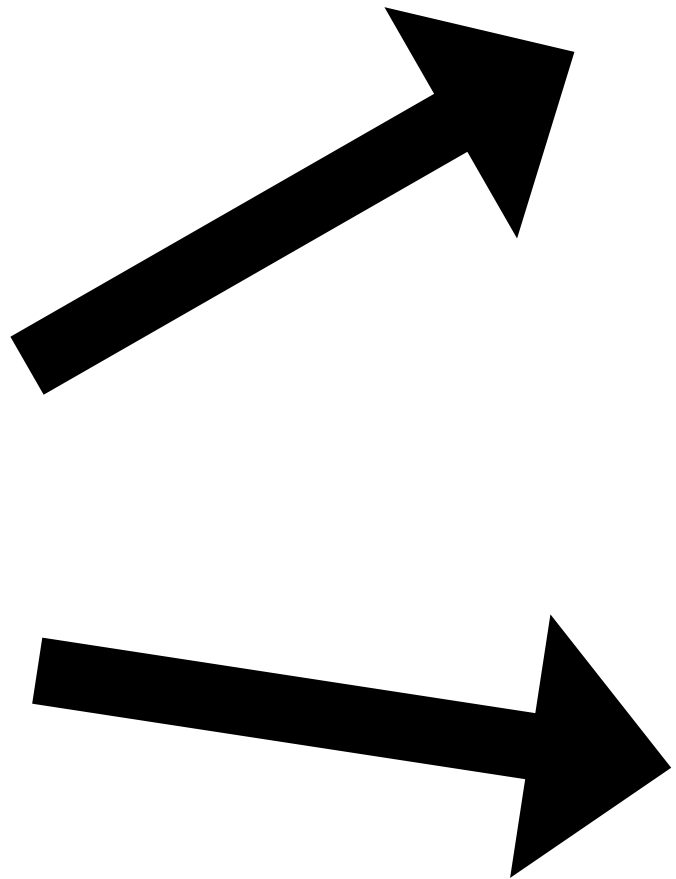
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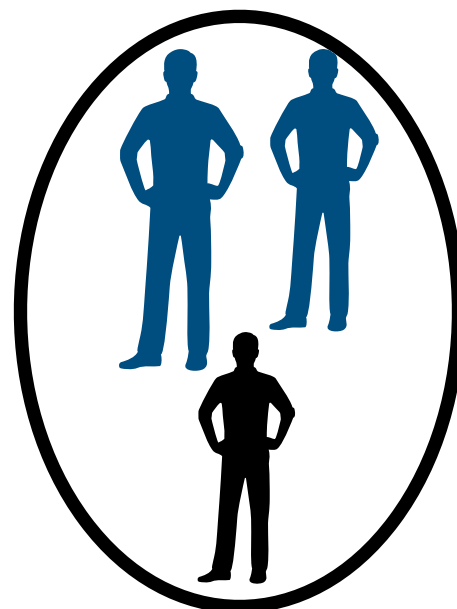
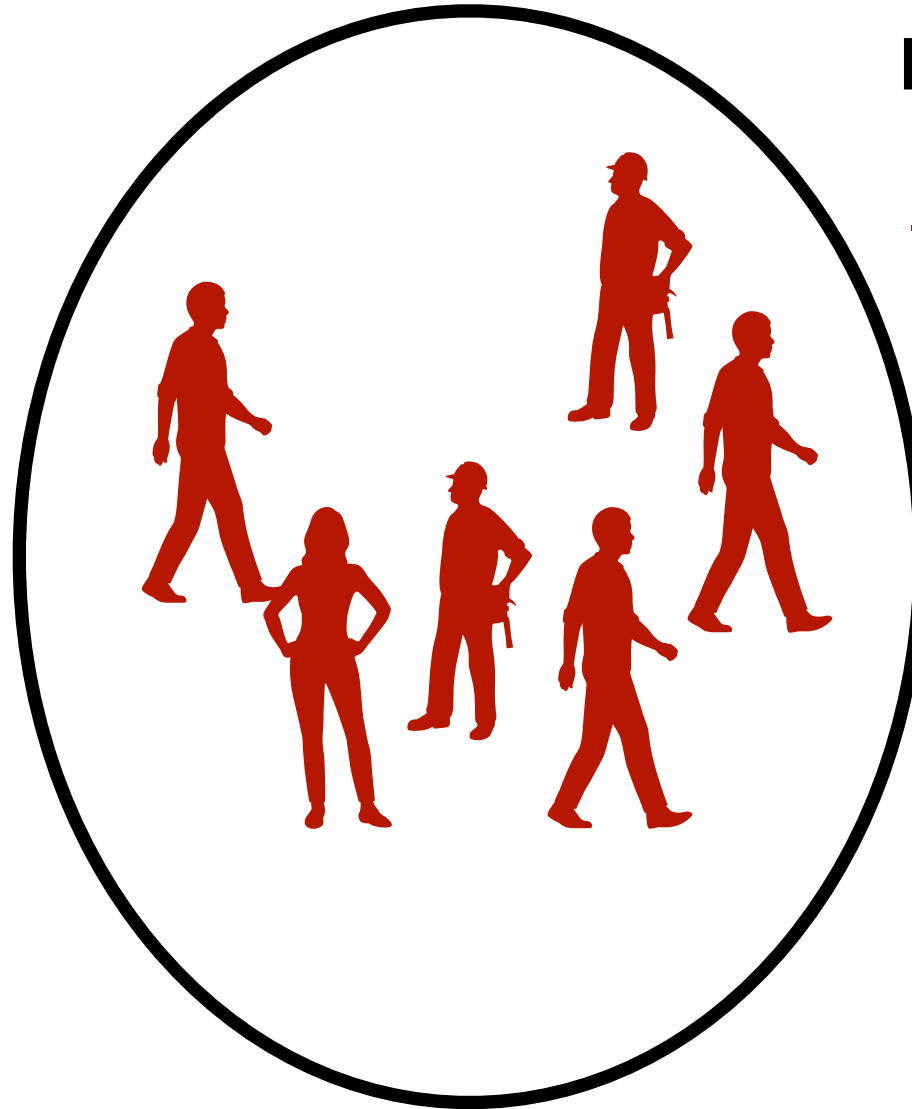
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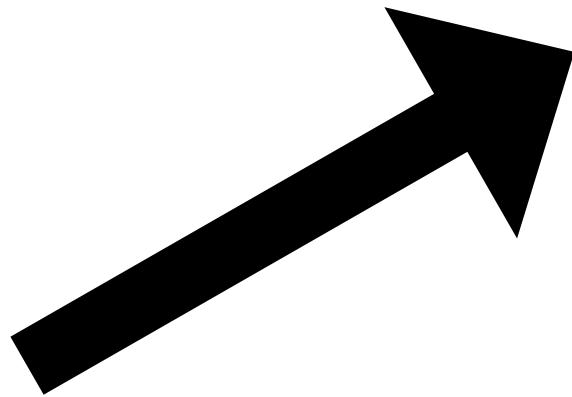


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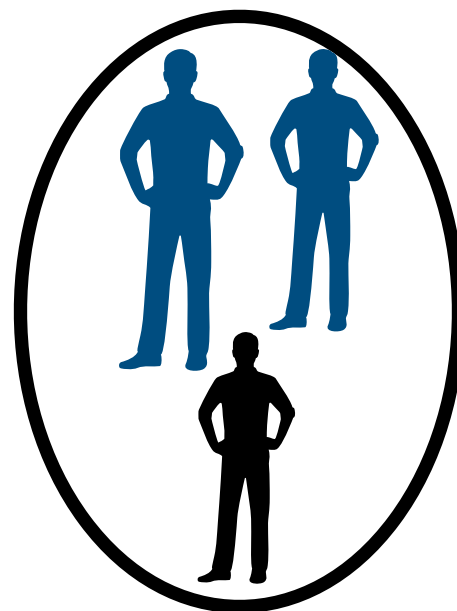
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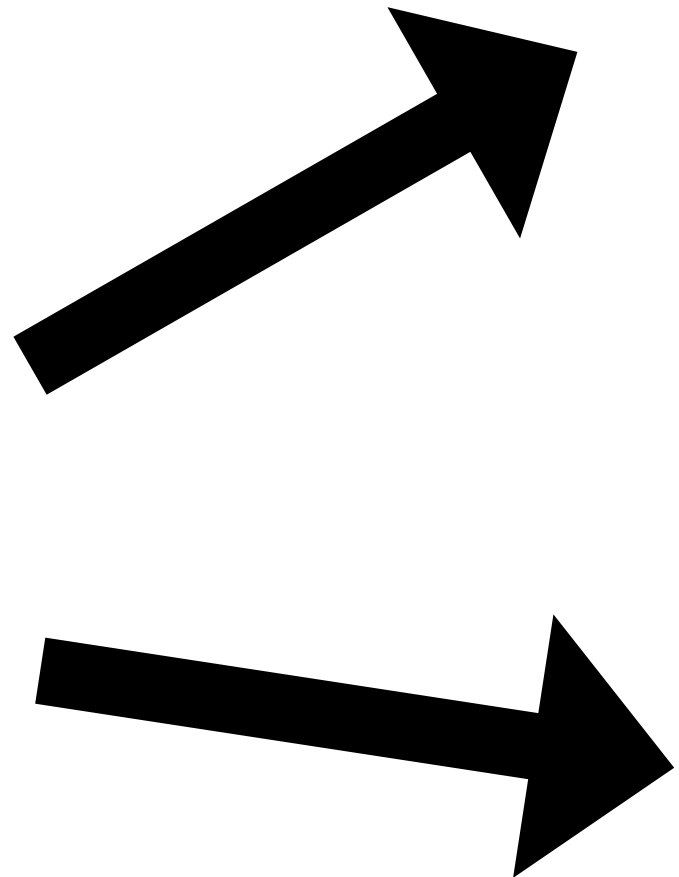


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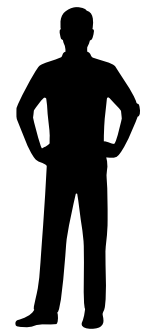
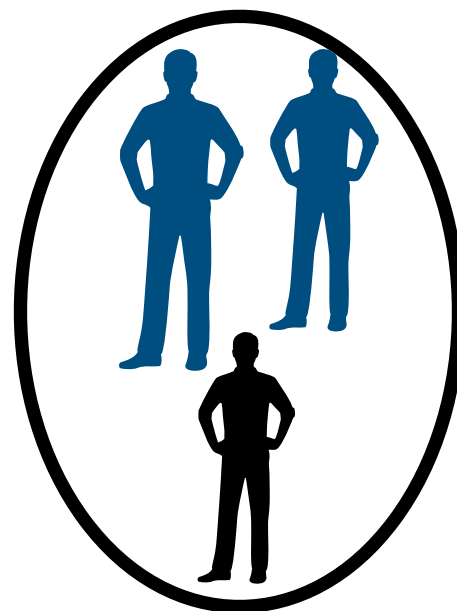
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- Needs to respect the moderation policy:
self-censors

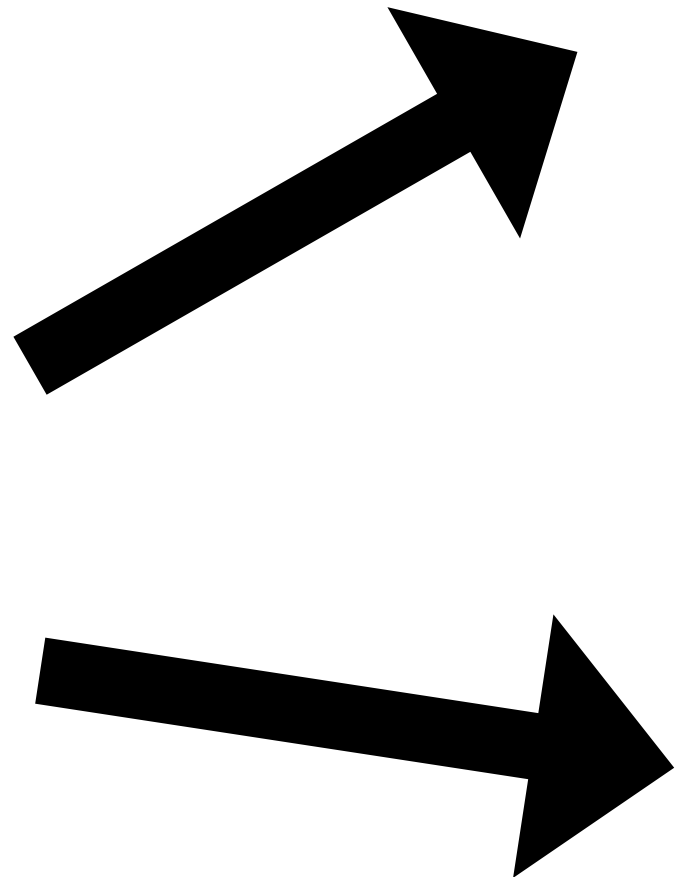


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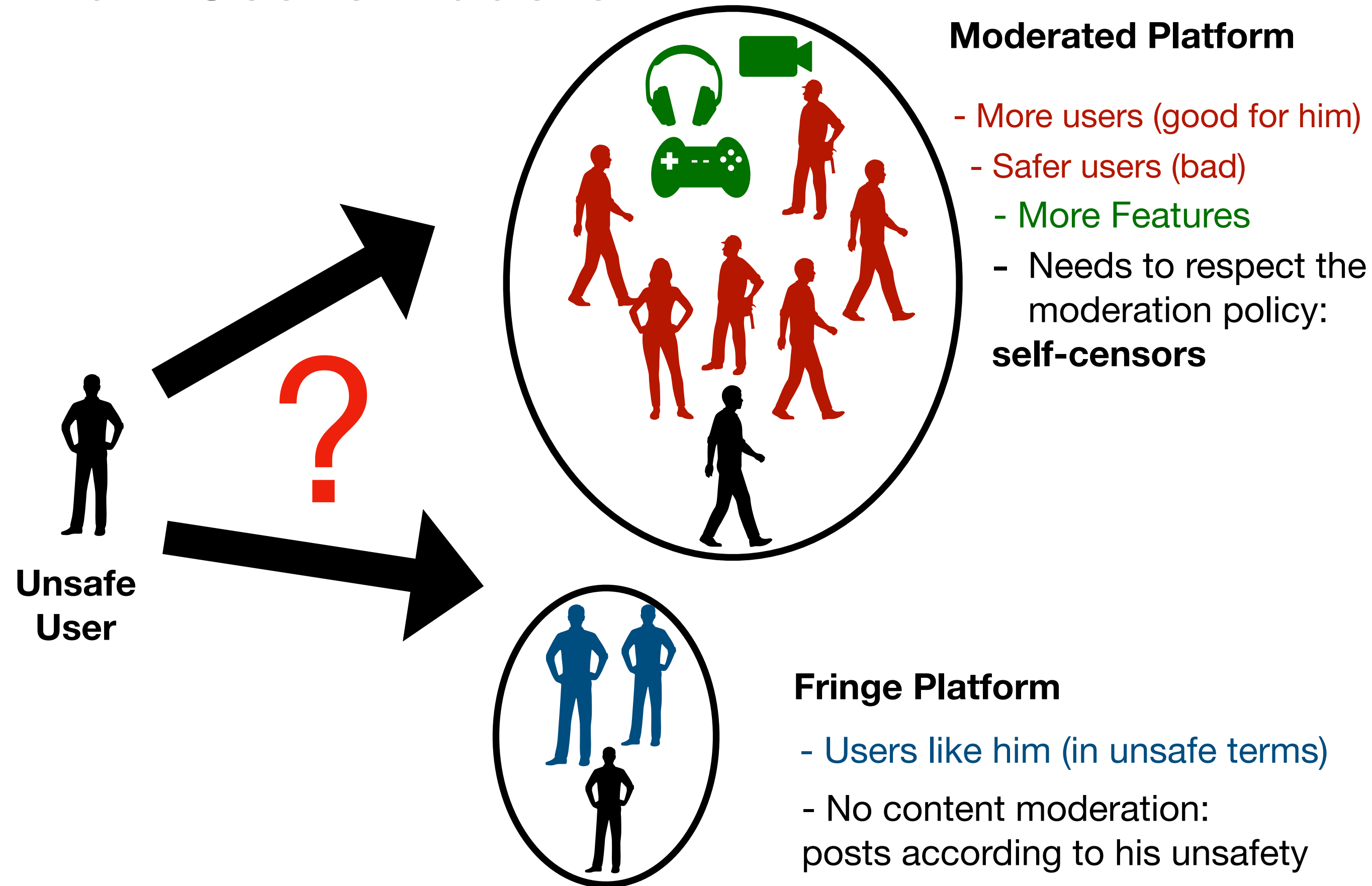
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2. Policy (to minimize the level of unsafe content):

- With **large** network effects, **too much self-regulation**
- **Regulation** only **useful** with **small** network effects (or high competition)

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 - First to study (theoretically) migration, and therefore:
 - **First to study leakage: ↑ Moderation may produce ↑ unsafe content**
- Analyzed potential mechanism behind empirical observations (Rizzi, 2023; Agarwal et al., 2022)
- Other Literature on Social Media (Zhang & Sarvary, 2012; Abreu & Jeon, 2019)

Roadmap

- I. Model and Equilibrium
- II. Policy
- III. Extensions (if time allows)

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- User i in platform j **reads** a random sample of the content, of avg type $\bar{\theta}_j$

$$\bar{\theta}_j = \int_{i \in j} \theta_i^C di \quad = \text{average type of content in platform } j$$

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Rk: No outside option!

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...platform (2) just exists with $K_2 = 1$

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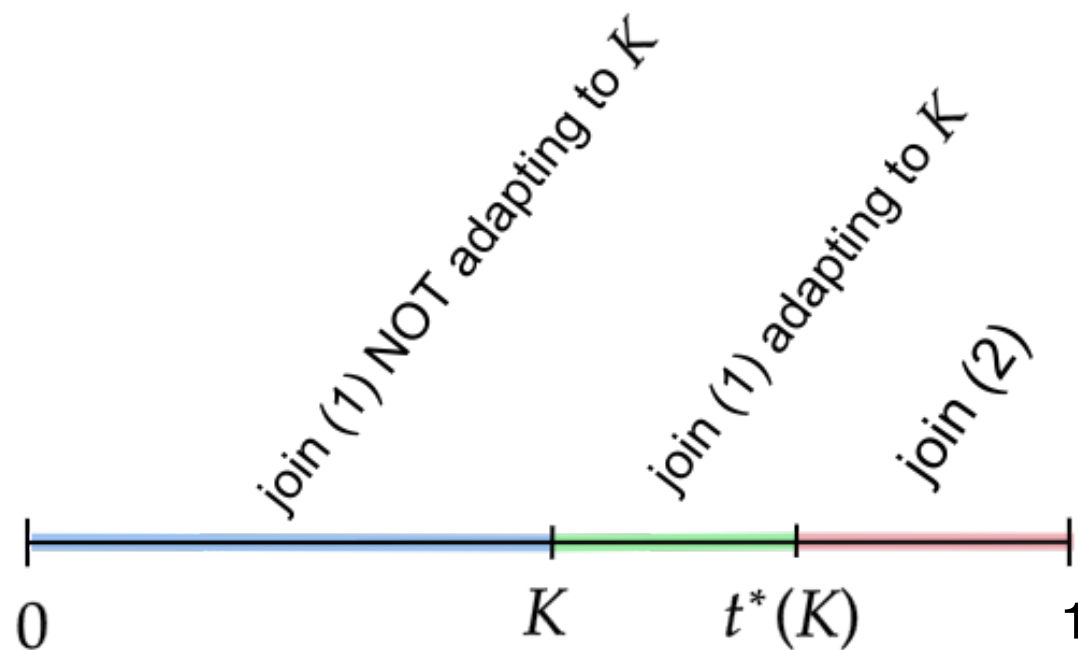
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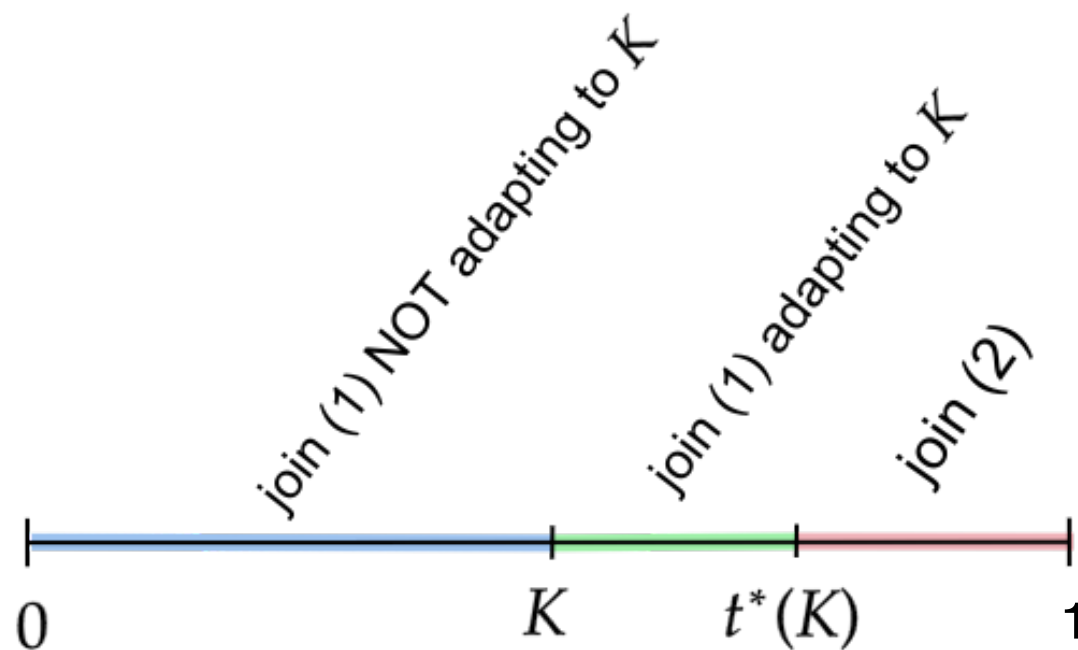
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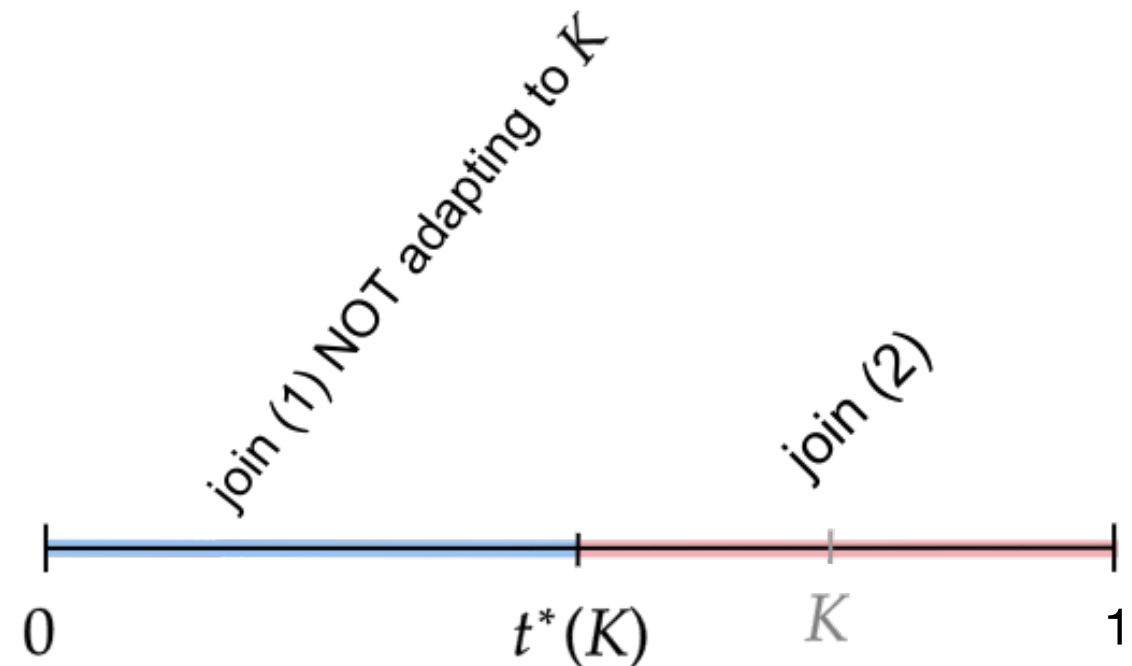
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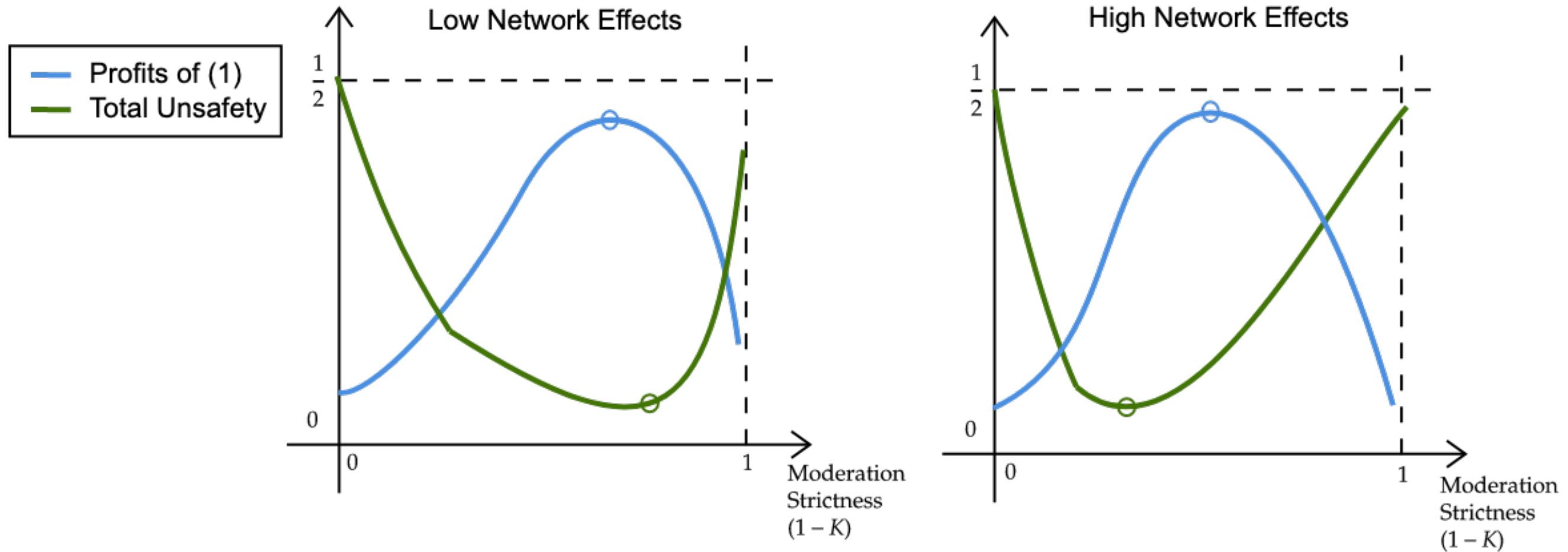


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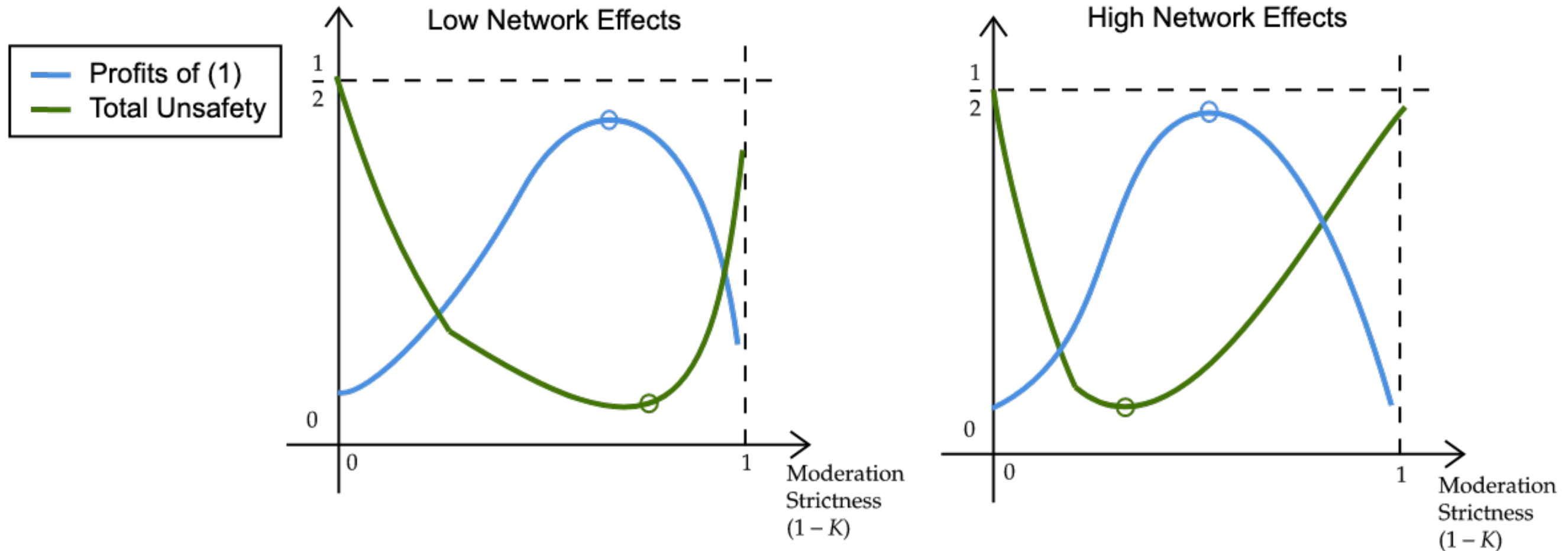


Users Unsafety θ_i

Characterization of the Equilibrium

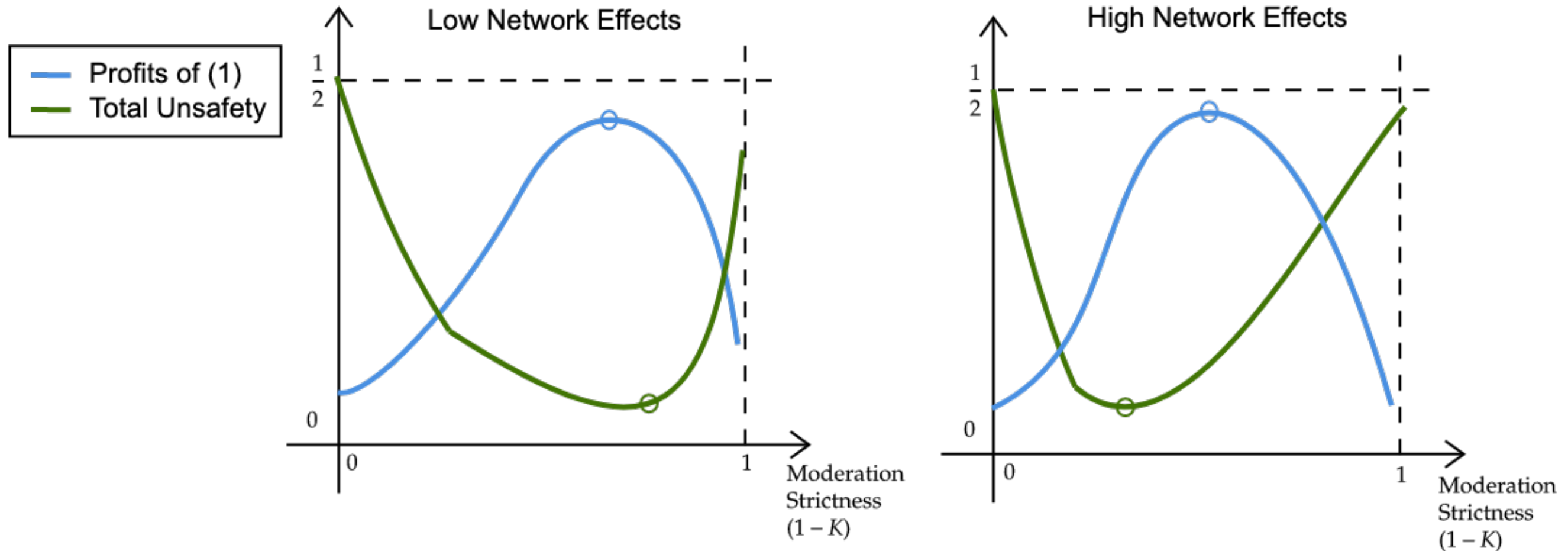


Characterization of the Equilibrium



Comparative statics: (excluding corner solutions)

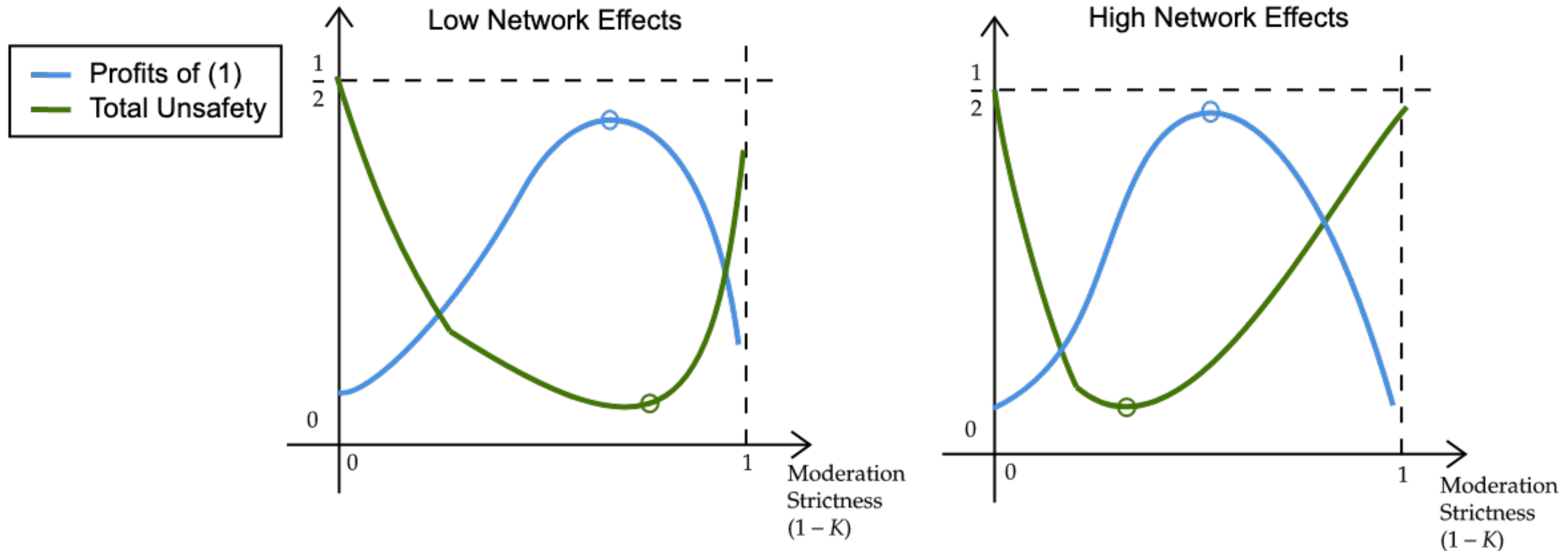
Characterization of the Equilibrium



Comparative statics: (excluding corner solutions)

I) As N.E. \uparrow , moderation strictness \downarrow for **platform** and **regulator**

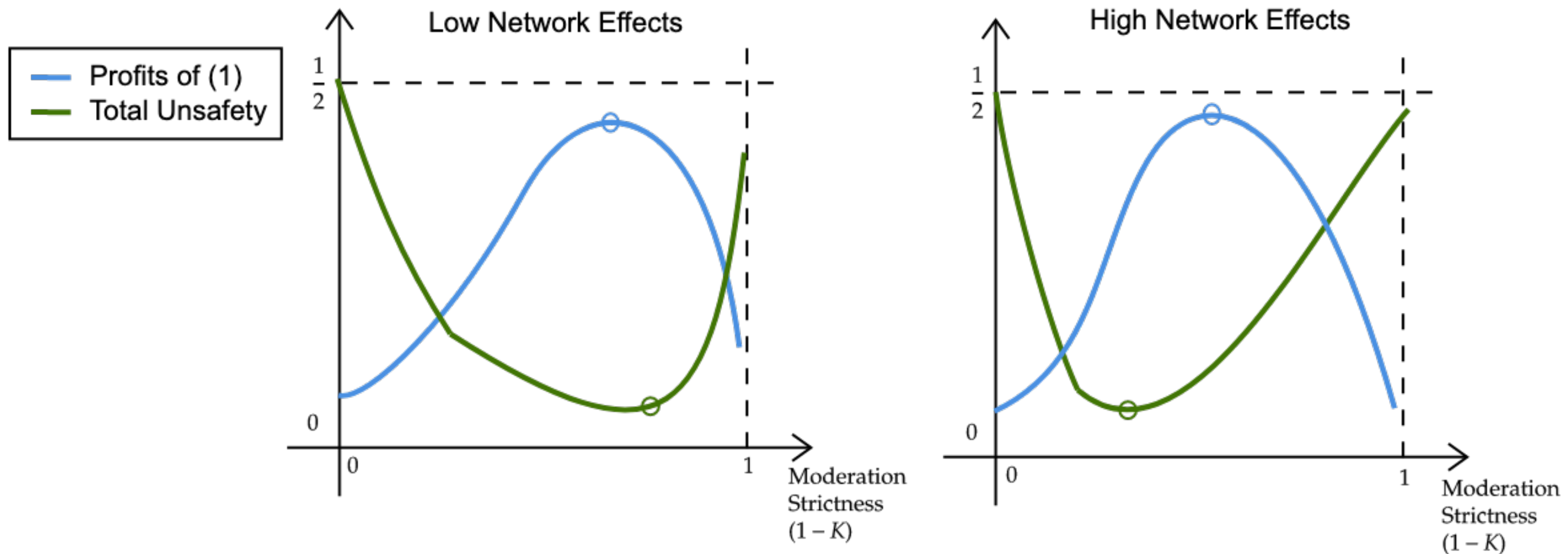
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Comparative statics: (excluding corner solutions)

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- II) It decreases **more** for the **regulator**

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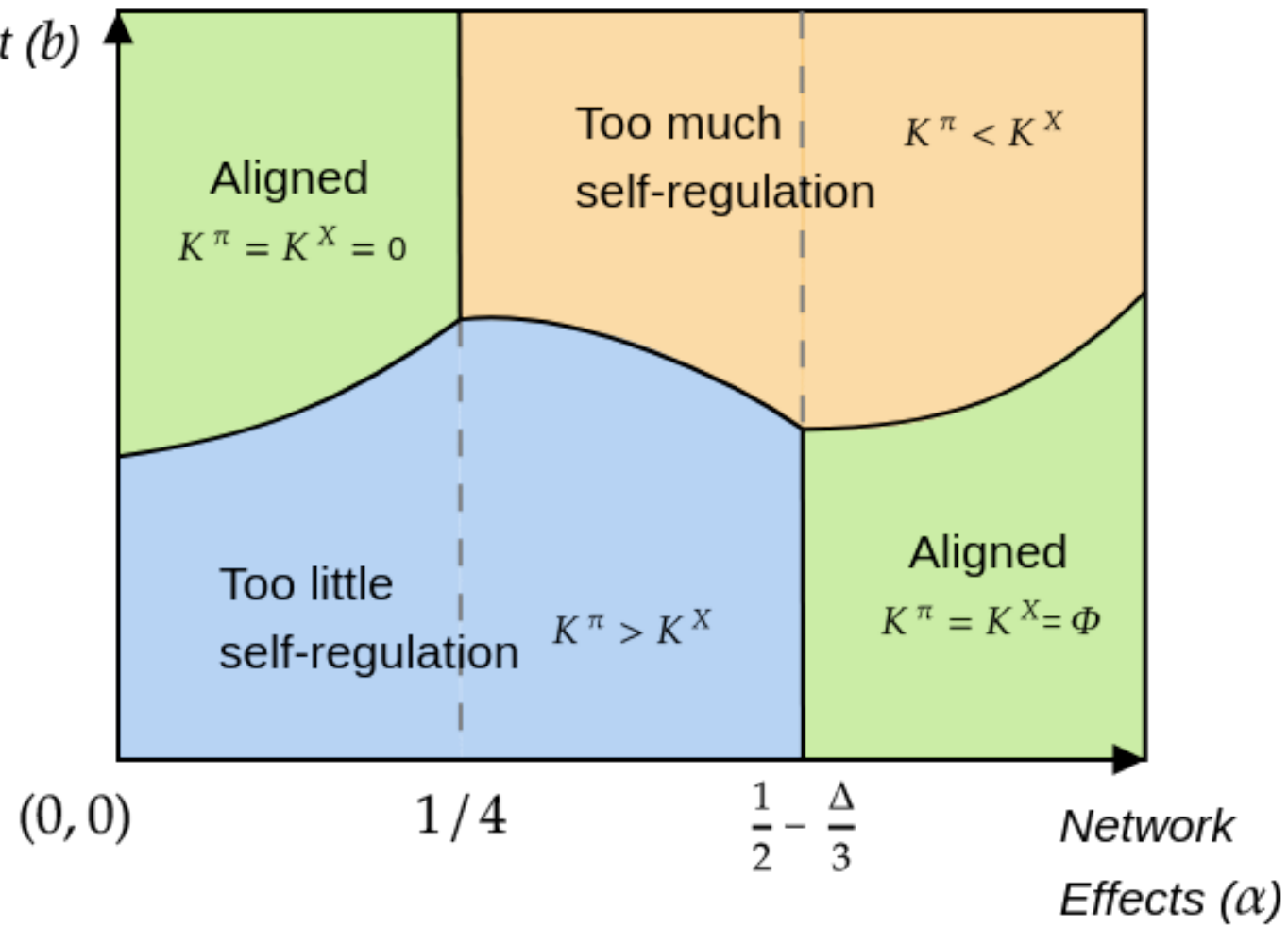


Comparative statics: (excluding corner solutions)

- I) As N.E. \uparrow , moderation strictness \downarrow for **platform** and **regulator**
- II) It decreases **more** for the **regulator**
- III) As quality prem \uparrow , strictness \uparrow for **platform** but \downarrow for **regulator**

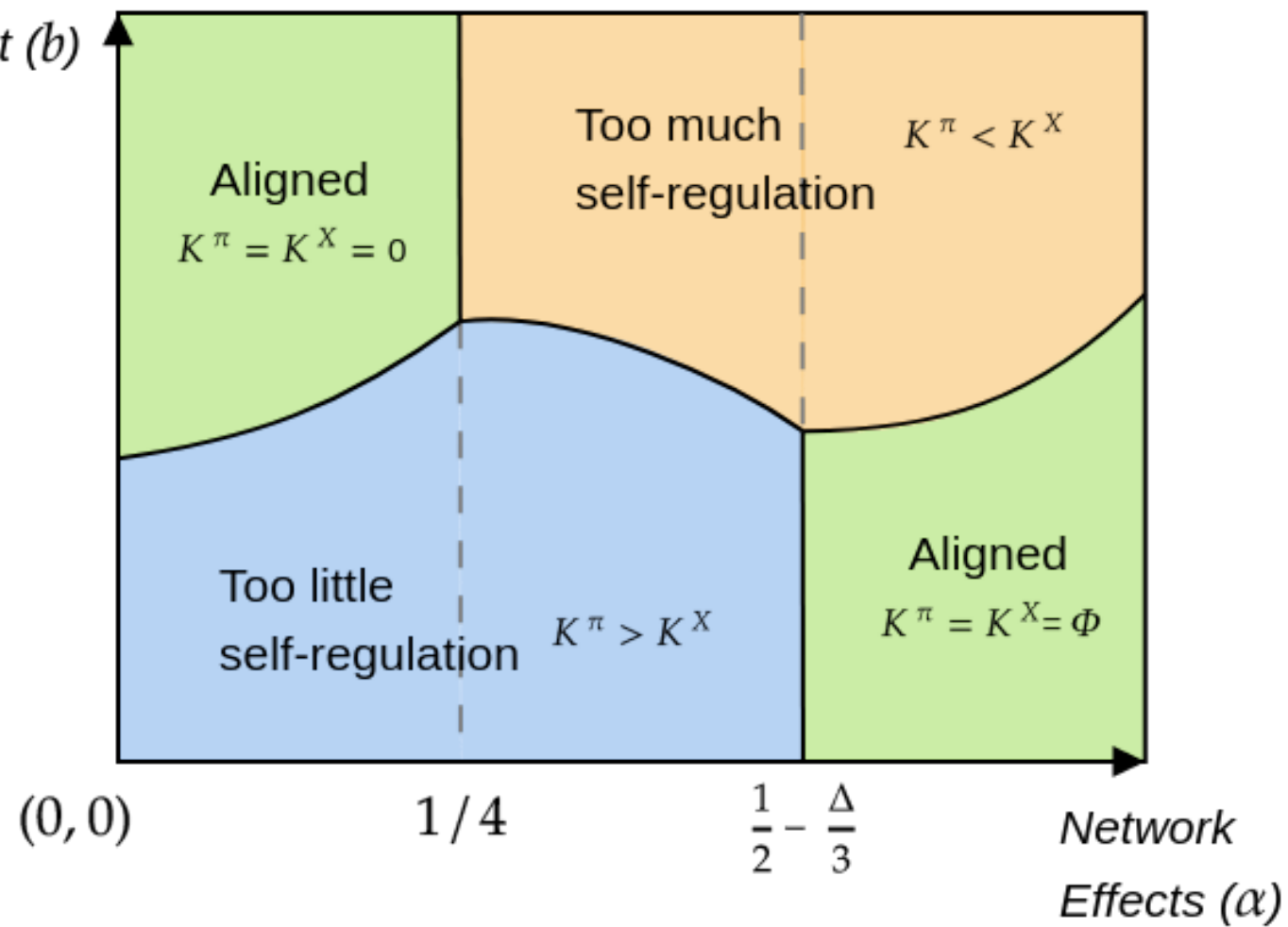
Policy

Advertisers aversion
to unsafe content (b)



Policy

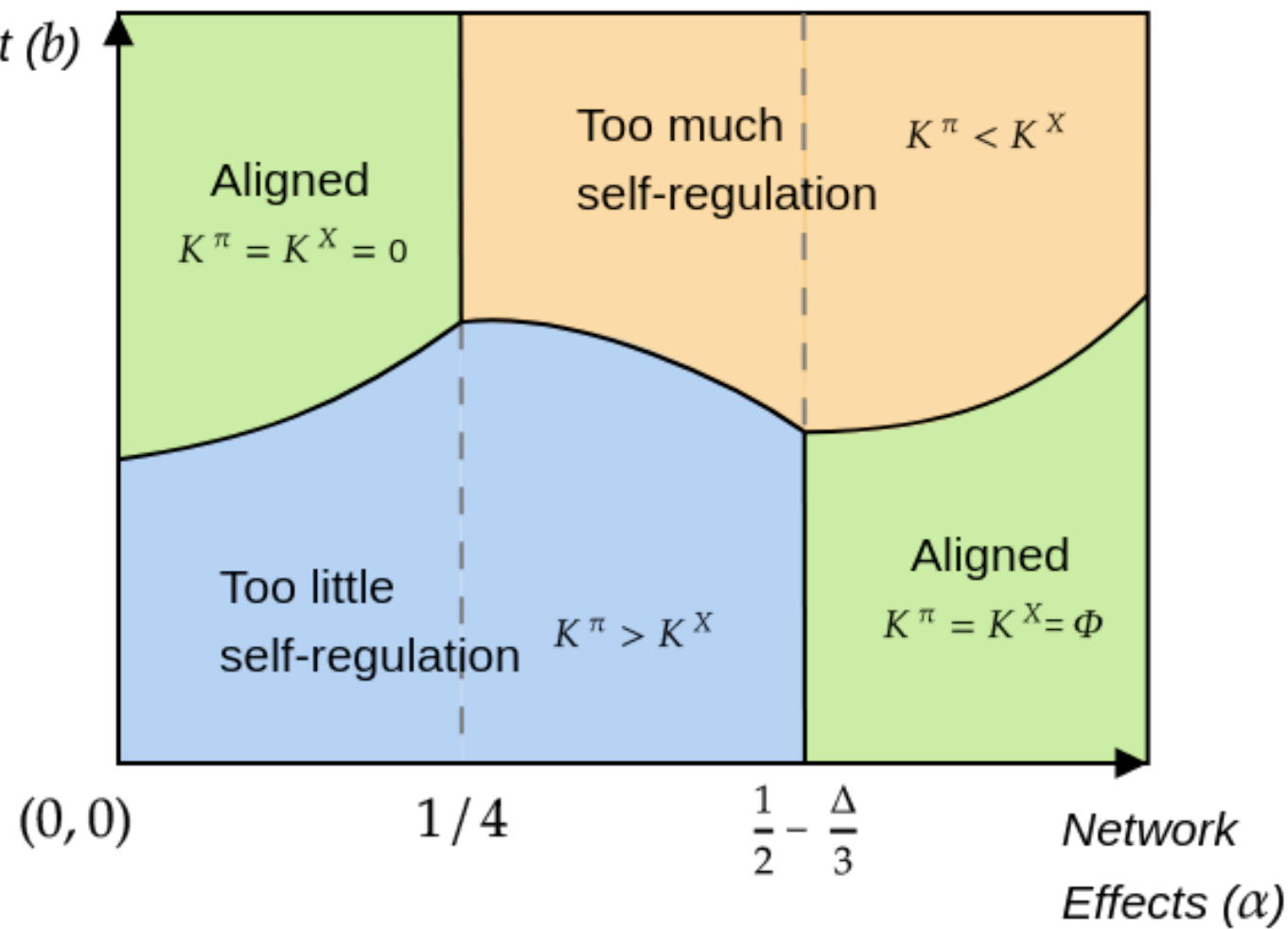
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Imposing a minimal content moderation:

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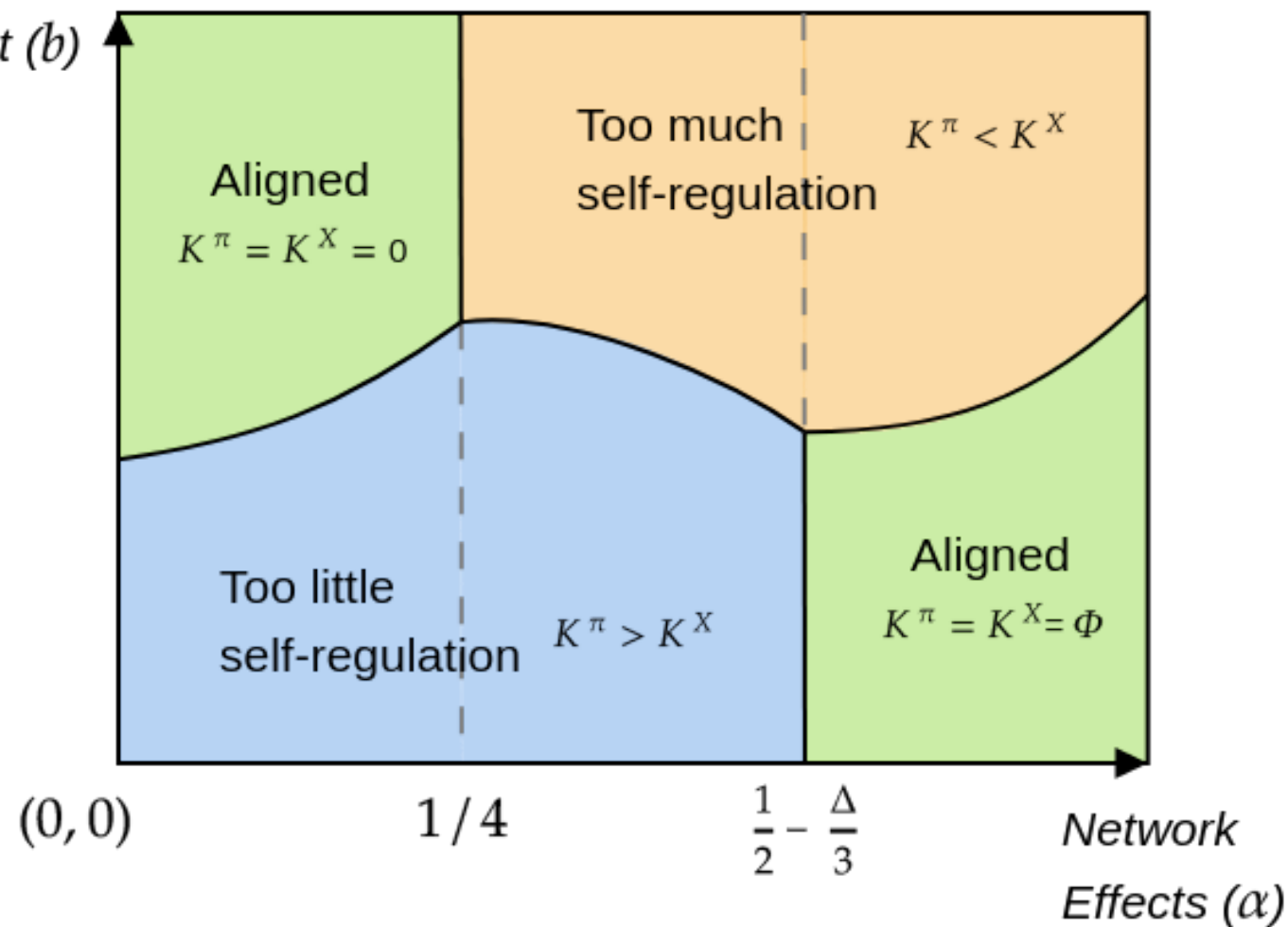
Imposing a minimal content moderation:

Blue Area:

Beneficial for the regulator
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Policy

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Imposing a minimal content moderation:

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Orange Area: such a policy wouldn't bind.

Regulators would like to impose a
maximal moderation policy to attract users
from the fringe platform.

Extensions

MULTIHOMING

*Sorry, there was a mistake in the paper!
(Lemma 5)

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Result in the literature
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t=3. Users preferences align (oppose)
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Main Result:

Moderate content moderation can reduce (increase) offline violence

Users are attracted to safer platforms and converge to the safer content they find there

Conclusion

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Main takeaways:

- Potential **migration** reshapes the economic incentives of the agents
- Minimal content moderation policy ONLY if
 - Weak Network Effects (Low α), High 'Competition' (Low Δ)

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Working on that

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Working on that

- Other *non-IO* applications

e.g. Cancel culture (~Tirole’s safe spaces)