

# Collusion among Adversaries

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Slides: `mattmalis.github.io/slides`

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- ▶ US entry into WWII; Gulf of Tonkin; Iraq invasion

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- ▶ How can costless communication between adversaries be informative and influential?

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  - ▶ communication allows them to coordinate their actions to realize these benefits

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Three players:

- ▶ leader  $A$
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Interpretation:

- ▶ low type: dovish, low-resolve, risk-averse
- ▶ high type: hawkish, high-resolve, risk-accepting
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D's signal:

- ▶  $x \in \{\tilde{L}, \tilde{H}\}$ ,  $Pr(x = \tilde{H}|\theta = H) = Pr(x = \tilde{L}|\theta = L) = \tau \in (\frac{1}{2}, 1)$

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$D$  preferences over types:

$$W_A(H, \ell, z) < W_A(L, \ell, z) \quad \text{and} \quad W_A(L, h, z) < W_A(H, h, z)$$

- ▶ given  $t = \ell$ ,  $D$  prefers  $\theta = L$
- ▶ given  $t = h$ ,  $D$  prefers  $\theta = H$
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Interpretation:

- ▶ not just crisis bargaining
- ▶ spiral model, with first-strike advantage
- ▶ long-term relationship trajectory, opportunities for cooperation

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- ▶  $U_B = W_B(\theta, t, z) - z\kappa$ 
  - ▶ direct cost of mobilizing  $\kappa \geq 0$

# Equilibrium, without communication

## Non-communication equilibrium

- ▶  $B^h$  mobilizes ( $z = 1$ )
- ▶  $B^l$  and  $B^m$  do not mobilize ( $z = 0$ )
- ▶  $D$  retains if signal of  $A$ 's type matches  $B$ 's action, i.e.:
  - ▶  $r = 1$  if  $(x = \tilde{H}, z = 1)$  or  $(x = \tilde{L}, z = 0)$
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→ mitigated by communication between  $A$  and  $B$

# Game setup, with communication

Sequence:

1.  $A$  and  $B$  types drawn by nature, observed privately
2.  $A$ : send private, costless message to  $B$ 
  - ▶ conciliatory ( $s = 0$ ) or hostile ( $s = 1$ )
3.  $B$ : mobilize for conflict ( $z = 1$ ) or not ( $z = 0$ )
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## Communication equilibrium

- ▶ *A* strategy:
  - ▶  $A_H$  sends hostile message ( $s = 1$ )
  - ▶  $A_L$  sends conciliatory message ( $s = 0$ )
- ▶ *B* strategy:
  - ▶  $B^h$  always mobilizes ( $z = 1$ )
  - ▶  $B^l$  never mobilizes ( $z = 0$ )
  - ▶  $B^m$  mobilizes iff receives hostile message ( $z = s$ )
- ▶ *D* strategy (same as before):
  - ▶ retain if signal of *A*'s type matches *B*'s action, i.e.:
    - ▶  $r = 1$  if  $(x = \tilde{H}, z = 1)$  or  $(x = \tilde{L}, z = 0)$
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- ▶ if both conditions satisfied: message is influential,  $z = s$

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# Influential communication

To summarize:

- ▶  $A$  and  $B$  collude against  $A$ 's domestic opposition, to extract a divisible benefit
  - ▶  $A$  gives  $B$  a security benefit:
    - ▶ lets  $B$  know whether he should or shouldn't mobilize
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- ▶ communication allows them to coordinate their actions to realize these benefits

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- ▶ Why? Because audience is *prospective*
  - ▶ doesn't matter who “started” the conflict
  - ▶  $B$ 's action reveals (probable) hostile intent, even if provoked

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- ▶ (Complication: domestic politics on both sides—Napoleon also wanted to provoke Bismarck into initiating)

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- ▶ unsuccessful; Kim Jong Un not actually a high type?
- ▶ (details still coming to light)

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Distinction from **audience costs**:

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Novel mechanism of cheap-talk diplomacy between adversaries:

- ▶ coordinating action to collude against a third party

# Thank you!

- ▶ Matt Malis, Texas A&M University
- ▶ Slides: `mattmalis.github.io/slides`
- ▶ Comments welcome and appreciated: `malis@tamu.edu`