Supplementary Material for Replication: Focality and Asymmetry in Multi-battle Contests

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October 14, 2020

1 Description of Replication Package

This replication package includes the following files:

- A copy of the IRB approval for the research project to which our experiment is associated: IRBApproval.pdf.

- A copy of the experimental design: Experimental Design.pdf.

- A copy of the experimental instructions: Experimental Instructions.pdf.

- The raw experimental dataset in non-proprietary format: RawData.csv.

- The raw experimental dataset in Stata format: RawData.dta.

- Do file for replication of the analysis in the main paper, and Appendix: Results.do (Stata 16.1 used).

- Mathematica files for best-response and ϵ-equilibrium Figures: BestResponses.nb and Epsilon.nb (Mathematica 10.0 used)

2 Description of the raw experimental dataset

List and description of the variables:

- treatment: Unique Treatment Identifier $1 = IS$; $2 = IF$; $3 = IV$; $4 = IL$; $5 = AS$; $6 = AF$; $7 = AV$.

- session: Unique Session Identifier.

- id: Unique Subject Identifier in Experiment.

- period: Period.

- player: Unique Subject Identifier in Session.

- partner: Opponent's player number.

- tokens: Budget.

- partnertokens: Opponent's budget.

- decisionlengthms: Decision Time Length (ms).

- allocation$X$: Allocation to battlefield X, where $X = 1$ is the target box.

- partnerallocation$X$: Opponent's allocation to battlefield X.

- earnings$X$: Realized earnings in battlefield X.

- battle$X$value: Value of Battlefield X.

- battle$X$location: Location of Battlefield X, where values go from $1 =$ "Far Left" to $4 =$ "Far Right".

- battle$X$color: Color of Battlefield X, where $0 =$ "White" and $1 =$ "Black".

- win$X$: Indicator variable $1 =$ "Victory in Battlefield X" and $0 =$ "Otherwise".

3   Description of the do file

The Stata do file "Results.do" contains the code to replicate the figures and analysis of the experimental data. Figures are saved on the working directory and Tables are displayed on the screen in a matrix named after the corresponding Table number (e.g., matrix 'Table3' corresponds to Table 3 in the main text). The running time for the whole code is few seconds in Stata 16.1.

4   Description of the Mathematica files

The Mathematica file "BestResponses.nb" contains the code to replicate Figure 2 and Figure A1. The Mathematica file "Epsilon.nb" contains the code to replicate Figure D1.