



LUDWIG-
MAXIMILIANS-
UNIVERSITÄT
MÜNCHEN

Institut für Soziologie

Martina Kroher und Tobias Wolbring

Social Control and Cheating

**A Replication and Extension of an Experiment
by Diekmann, Przepiorka and Rauhut (DPR)**

Seminar „Rational Choice Sociology“; VIU 2012





- Deviant behavior and norm violations occurs often in everyday life (jaywalking, fare evasion, test cheating, etc.)
- Research suggests: the degree of norm abiding behavior varies with the situation and the visibility of behavior
 - Franzen/Pointer (2012): dictator games
 - Keizer et al. (2008): broken windows
 - Milgram (1961): effects of the experimenter on obedience
- Situational cues signal social control and probability of detection/sanction:
 - norms previously broken by others
 - degree of visibility of deviant behavior



- Subjects roll a die in private and report the result
- The possibility to cheat was given to subjects (N = 466)
- Payoff depended on dice roll:

Spots	1	2	3	4	5	6
Payoff (CHF)	1	2	3	4	5	0

- 2 rounds: 3 different information conditions after round 1
 - no information (info0)
 - bar chart with ‚faked‘ dice roles (cheating clearly visible) (info1)
 - bar chart with actual dice roles of all participants in round 1 (info2)

2. Experiment by DPR (2011)

2.1 Design

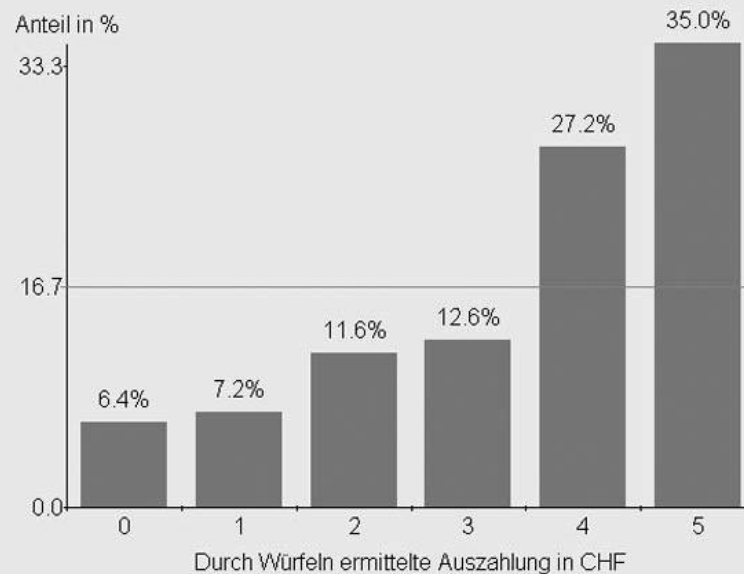


- info1: ‚Faked‘ graph (Fischbacher & Heusi 2008)

Diese Grafik zeigt die Verteilung der Auszahlungen, die von **389 Studierenden** der ETH und der Universität Zürich in demselben Experiment durch Würfeln ermittelt wurden.

Die **rote Linie** markiert den durchschnittlichen Anteil der Auszahlungen, der sich bei einer **grossen Zahl von zufälligen Würfelwürfen** ergeben würde.

Nachfolgend erhalten Sie die Möglichkeit erneut zu würfeln. Die Auszahlung, die Sie beim nächsten Wurf ermitteln, wird Ihnen zu Ihrer bisherigen Auszahlung dazugezählt.





- Remarkable deviation from fair die in both rounds in all groups ($\neq 1/6$)

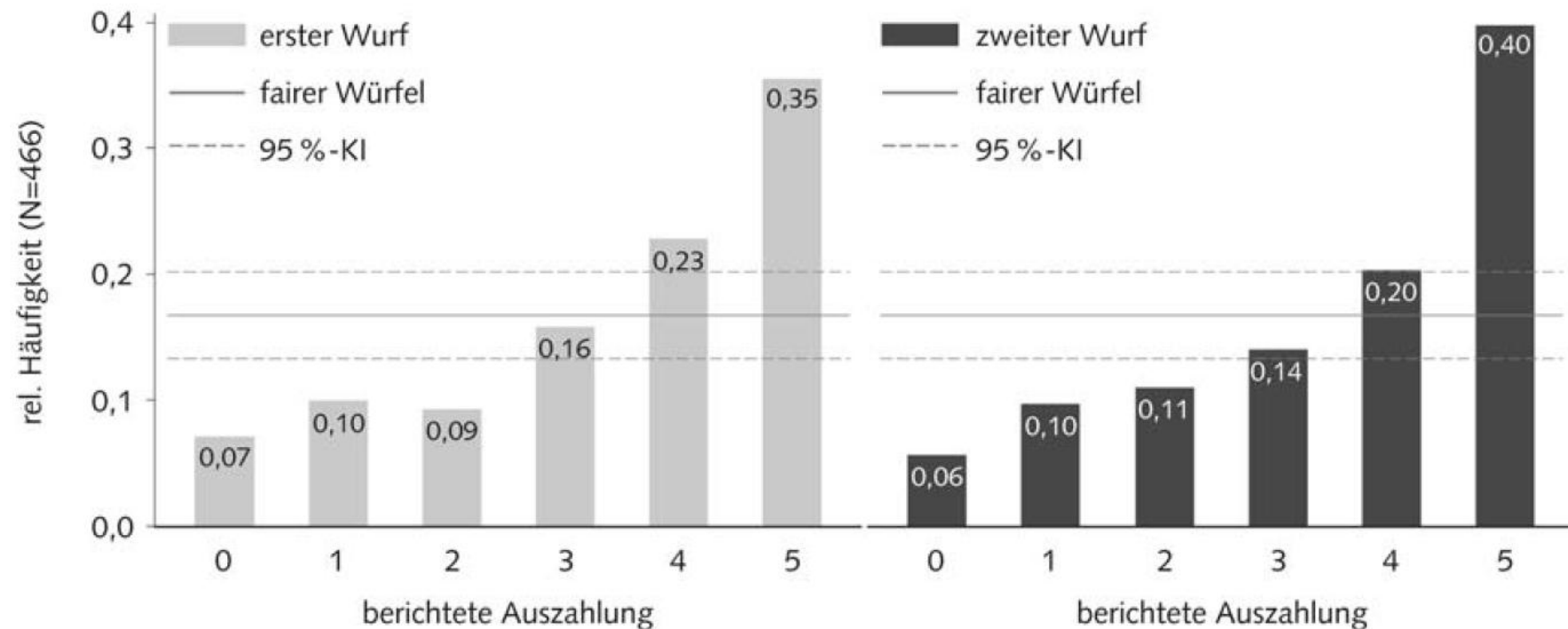


Abb. 1 Die Verteilung der berichteten Auszahlungen nach dem ersten und zweiten Wurf

2. Experiment by DPR (2011)

2.2 Results



- Probability of rolling a 5 (fair die) in both rounds = 2,8%

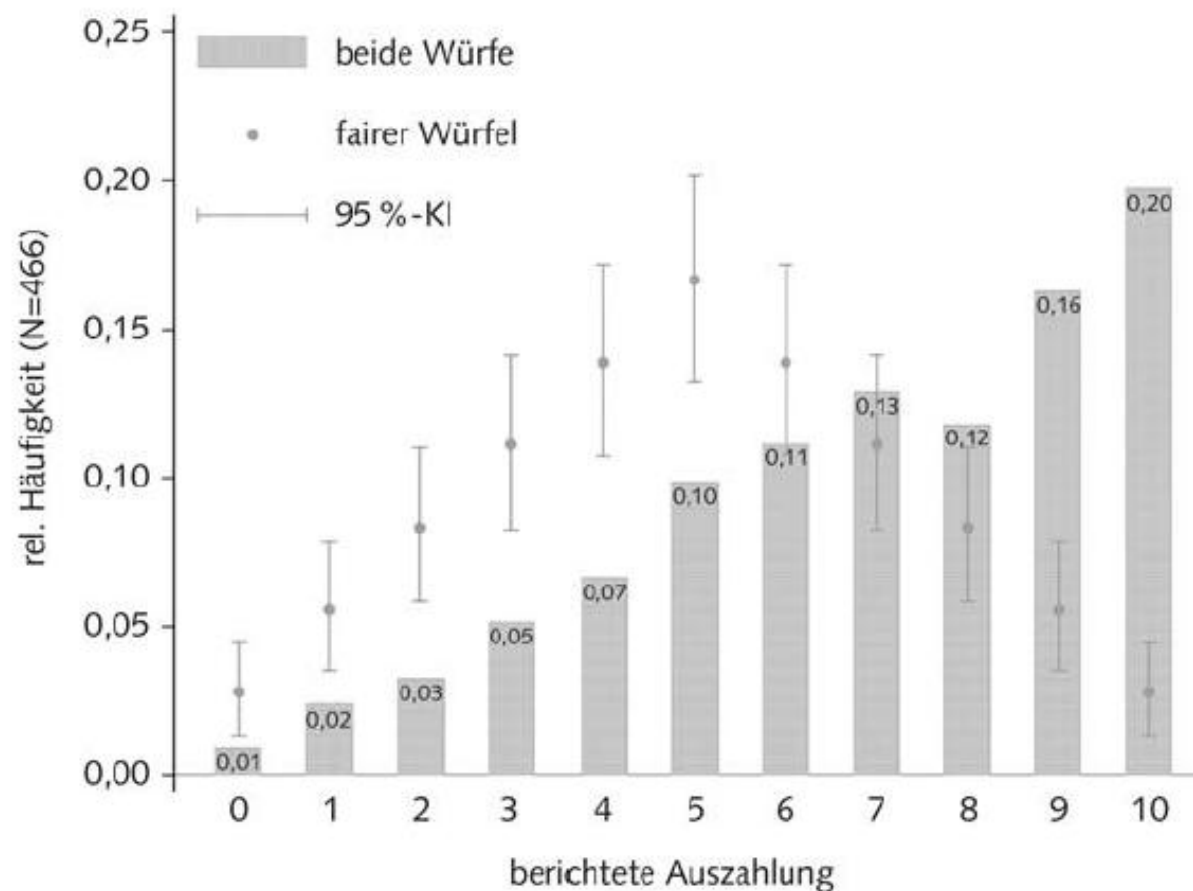


Abb. 2 Die Verteilung der berichteten Gesamtauszahlung

2. Experiment by DPR (2011)

2.2 Results



- Info1 and info2: significantly more norm violations

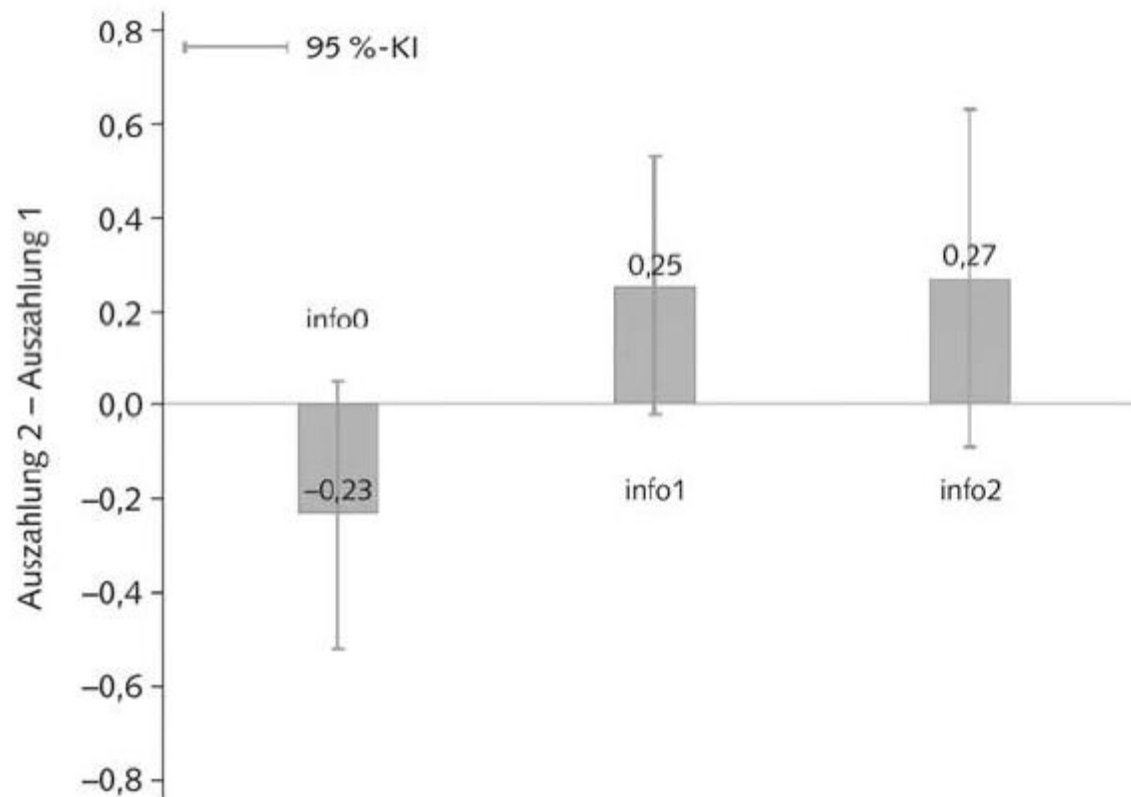


Abb. 3 Differenz zwischen erster und zweiter berichteter Auszahlung nach Versuchsbedingung

3. Replication

3.1 Design



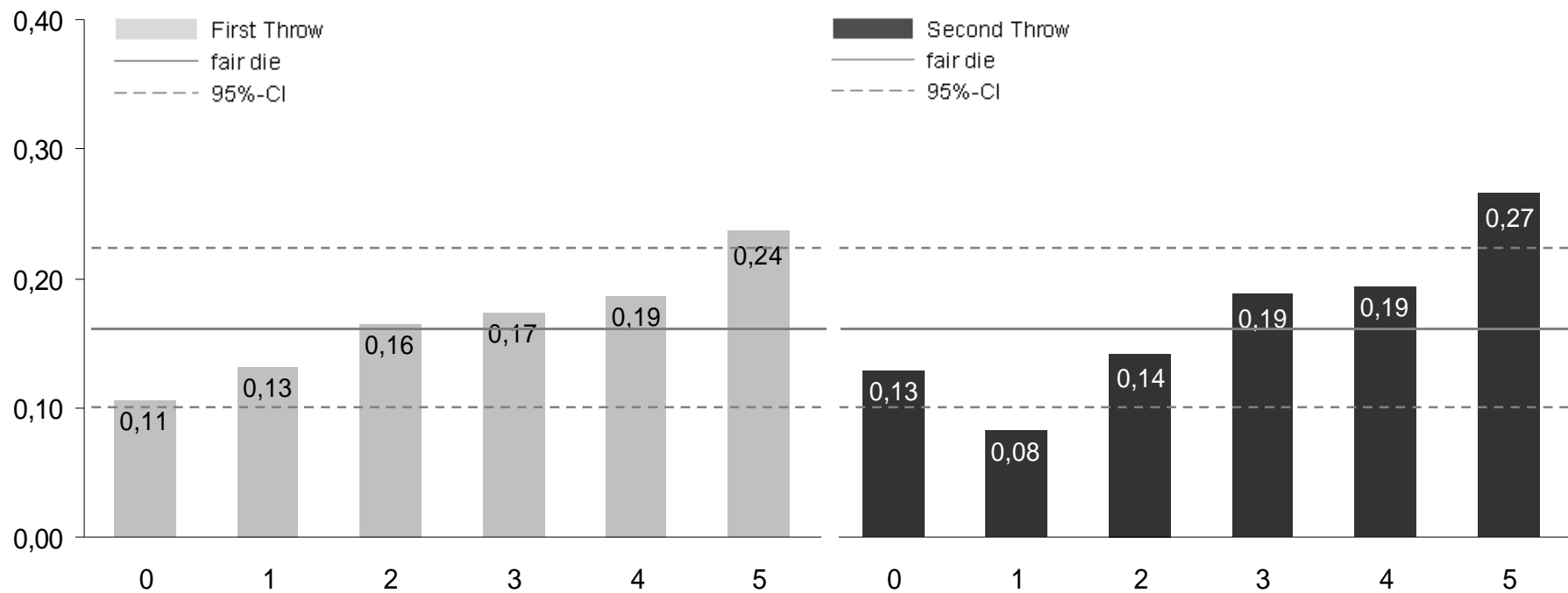
- Similar experimental setup as DPR
- Subjects roll a die in private and report the result
- The possibility to cheat was given to subjects (N = 220)
- Payoff depended on dice roll:

Spots	1	2	3	4	5	6
Payoff (€)	1	2	3	4	5	0

- 2 rounds; however, only 2 information conditions
 - no information (info0)
 - bar chart with ,faked‘ dice roles (cheating clearly visible) (info1)

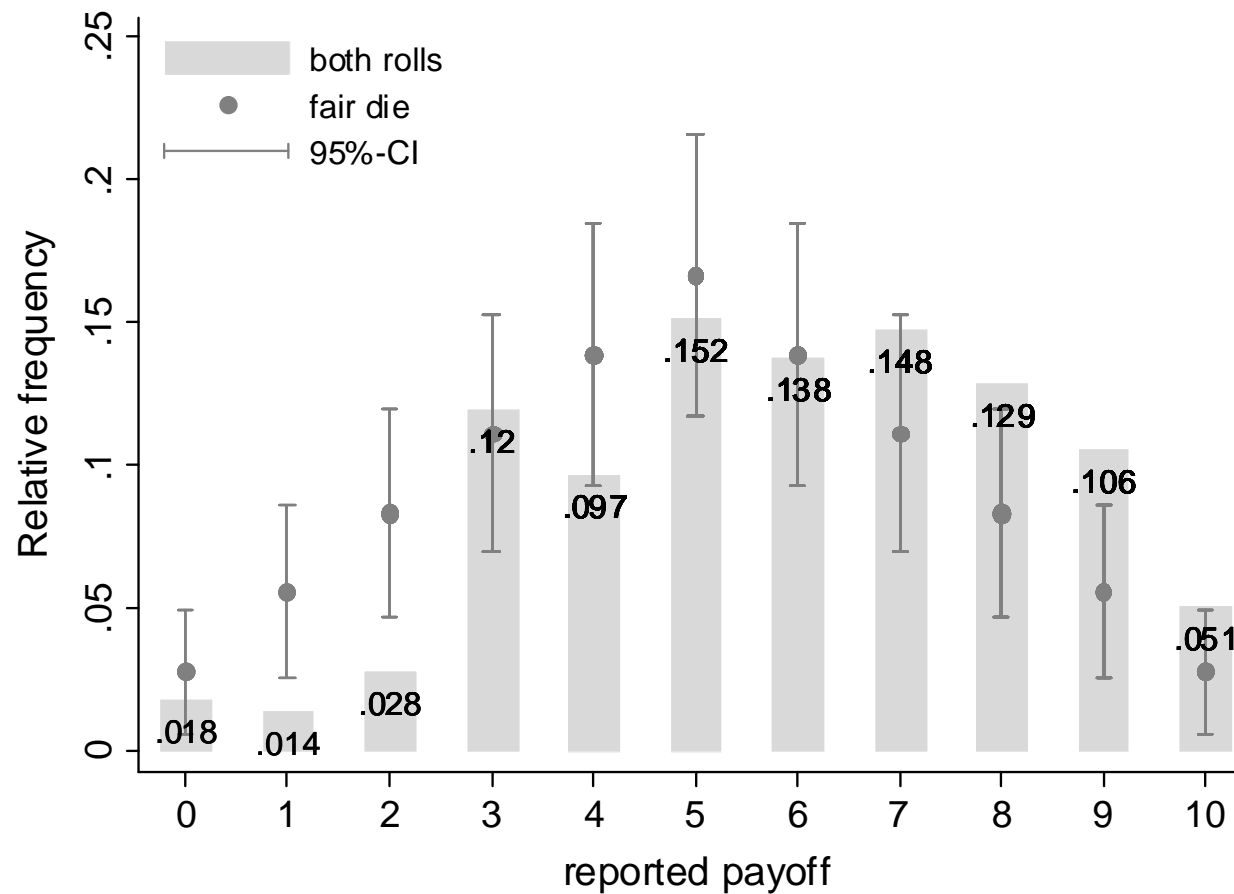


- Remarkable deviation in both rounds in all groups ($\neq 1/6$)
- Similar results as DPR, but less intense



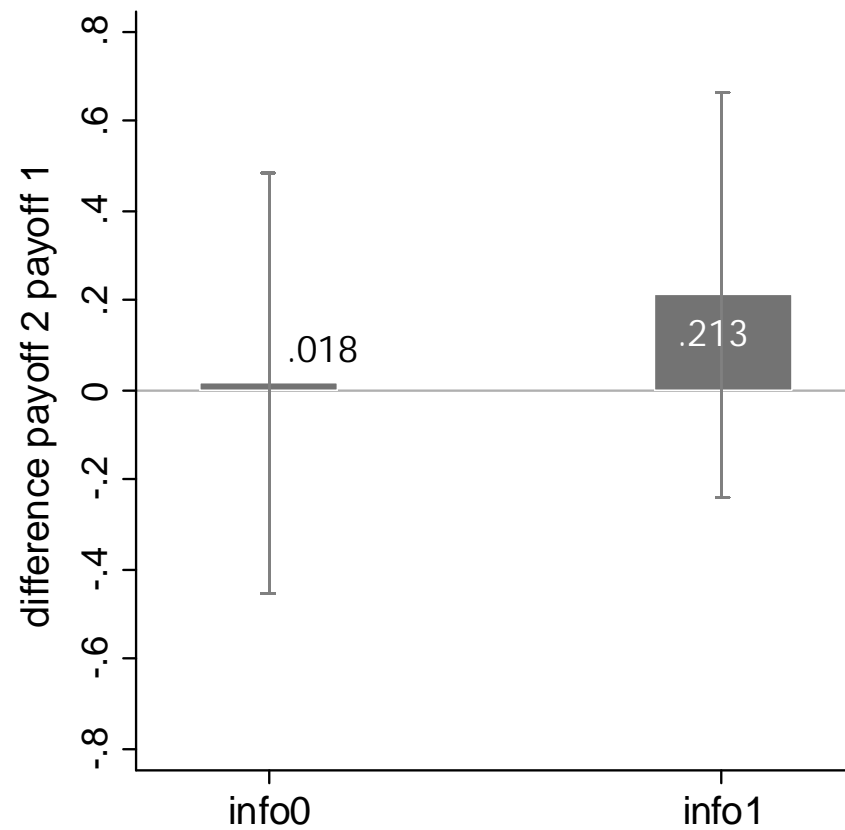


- Probability of rolling a 5 (fair die) in both rounds = 2,8%





- In the info conditions significantly more norm violations





- Treatment ‚eyes‘



vs. neutral treatment



- Playing together
 - Two subjects shared a die
 - They could see each others dice rolls and what they entered on the screen

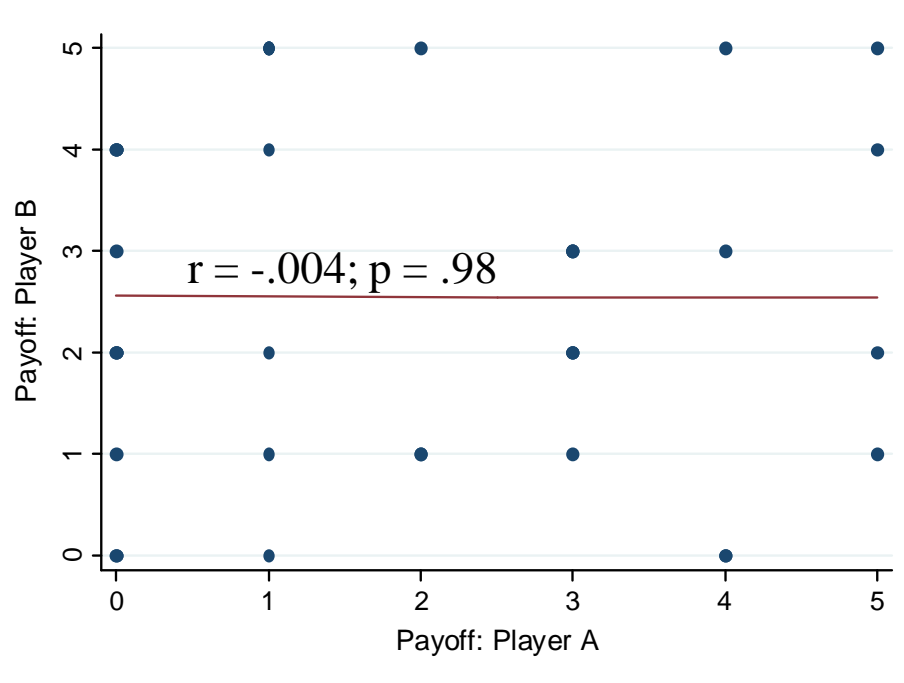


- Treatment ‚eyes‘ and playing together

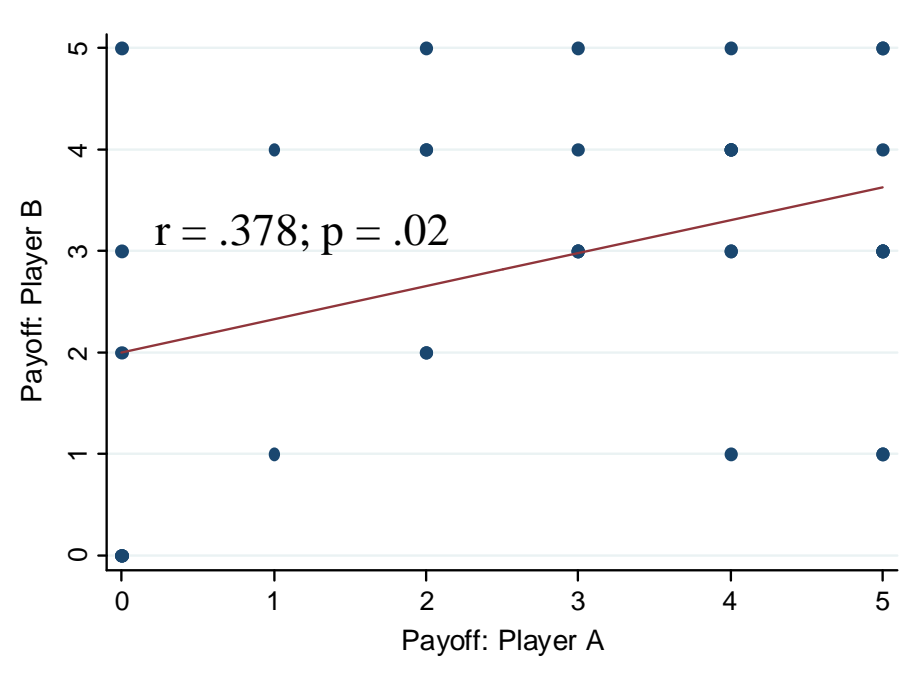
	payoff round 1	payoff round 2
together	-0.975** (-3.54)	-0.0393 (-0.14)
eyes	-0.250 (-0.98)	0.166 (0.58)
_cons	3.276** (15.08)	2.855** (12.29)
N	219	218

Note: controlled for info condition

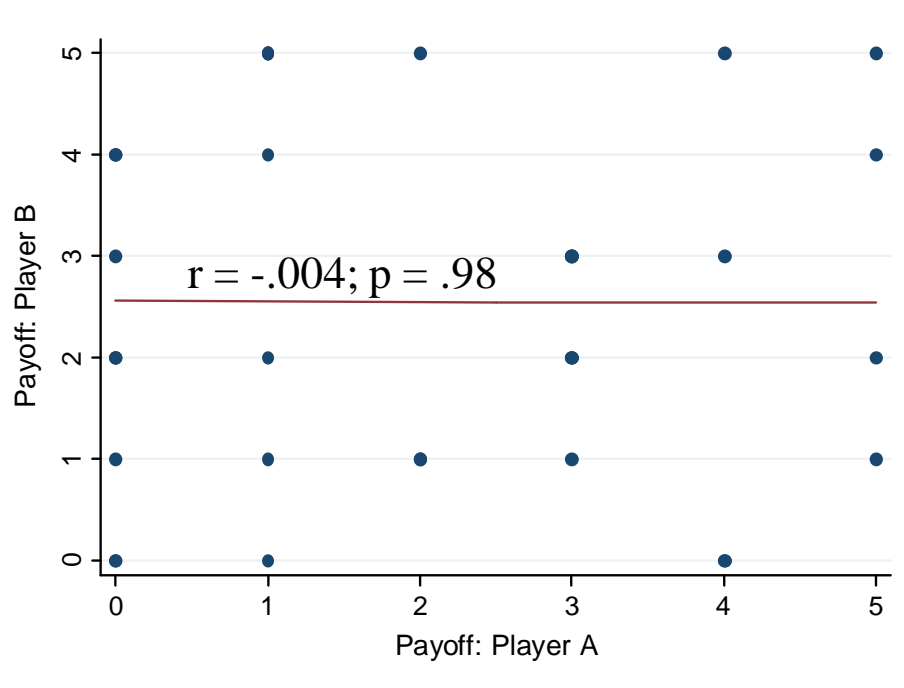
- Payoff round 1 (36 pairs)



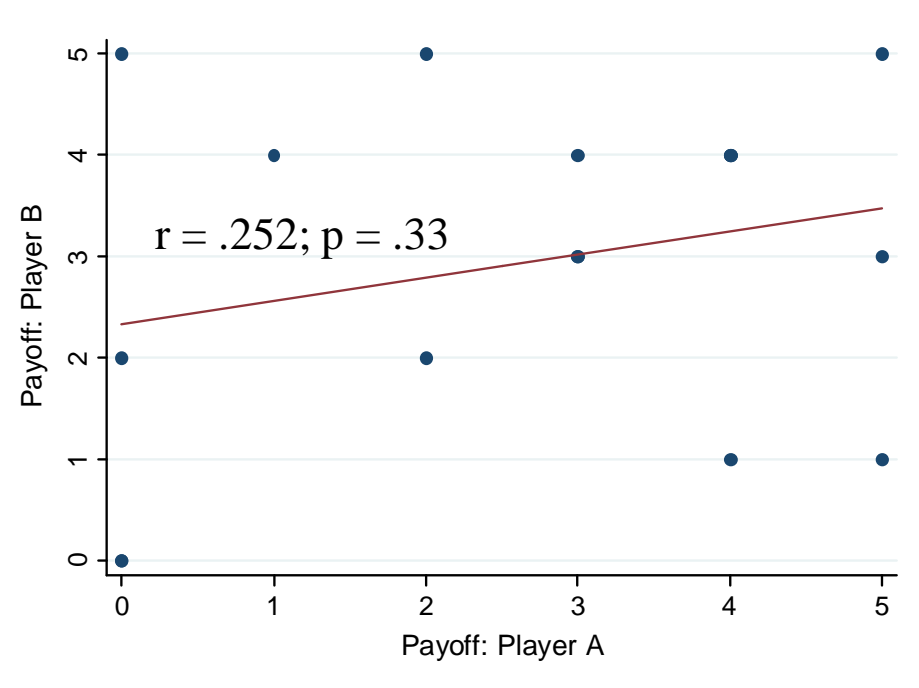
- Payoff round 2 (36 pairs)



- Payoff round 1 (36 pairs)



- Payoff round 2, without feedback (17 pairs)

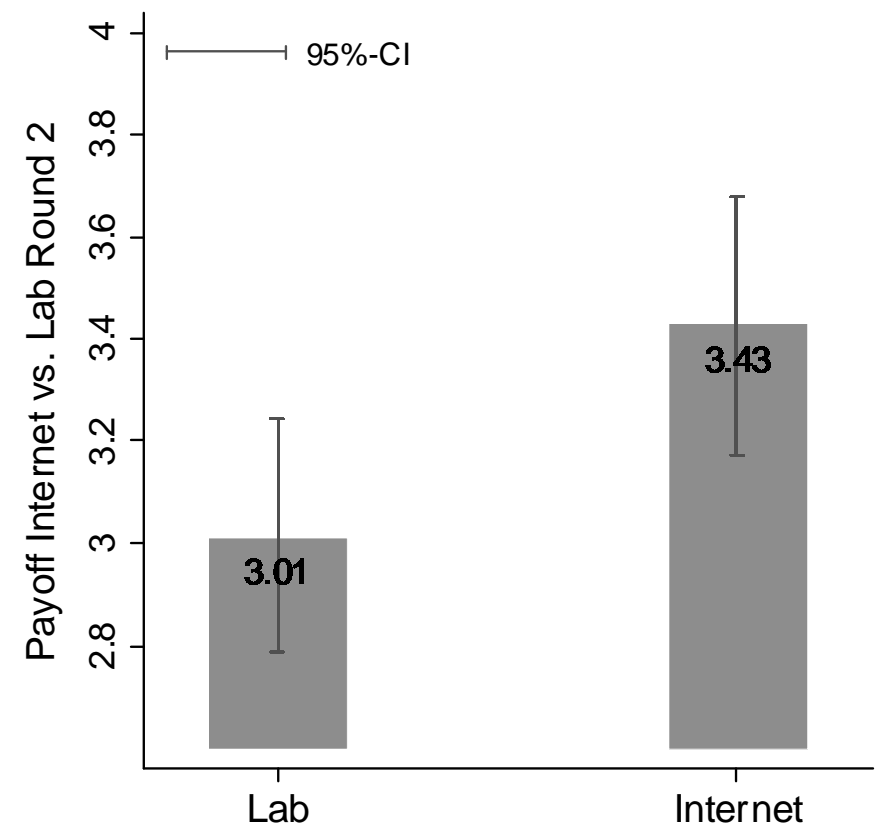
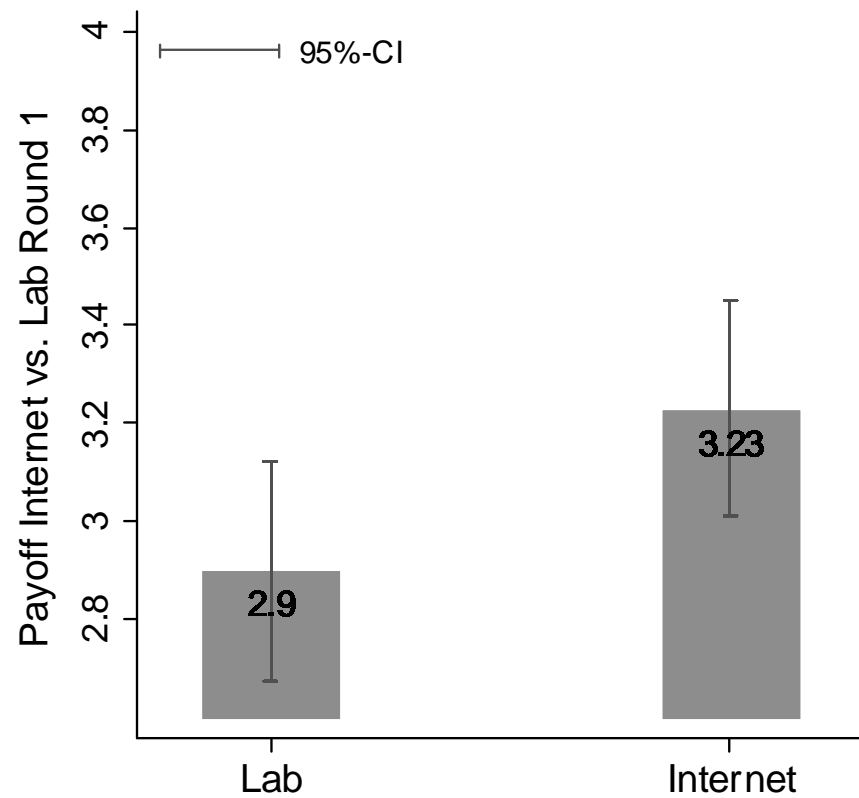


3. Replication

3.3 Extension (Lab vs. Internet)



- Lab vs. internet





- Replication:
 - Direction of results similar to DPR, however far weaker effects
 - Already in the first round cheating over all groups
 - Probability of reporting a payoff of 0, 1 and 2 clearly underrepresented
 - Cheating from other persons cause own cheating behavior
- Extension:
 - Eyes: no significant effect on cheating behavior
 - Playing together: significant effect on cheating behavior
 - Internet: significantly more cheating than in the lab



LUDWIG-
MAXIMILIANS-
UNIVERSITÄT
MÜNCHEN



Thank you for
your attention!