

Job loss, unemployment, and post-unemployment subjective well-being

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Jonas Voßemer
University of Oldenburg

1. Motivation + Research Questions

Job loss, unemployment, reemployment and subjective well-being

- Job loss/unemployment → negative (causal) effects in the **short-run**

(e.g. Kassenboehmer/Haisken-DeNew 2009, Winkelmann/Winkelmann 1998)

- Reemployment → positive (causal) effects in the **short-run**

(e.g. Grün et al. 2010, Krueger et al. 2012)

see McKee-Ryan et al. 2005, Paul and Moser 2009, Wanberg 2012 for meta-analyses/reviews

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Combined effect on post-unemployment subjective well-being?

- Can reemployment compensate the effects of unemployment? (e.g. Young 2012)

- What are the **durable** economic and social **costs** (persistent scars)?

- Unemployment as a “trigger” for increasing inequality across the life course

(DiPrete/McManus 2000)

see Clark et al. 2001, Kessler et al. 1989, Knabe/Rätzel 2011, Lucas et al. 2004, Strully 2009, Young 2012

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 - Involuntary vs. voluntary job loss
 - Short-term vs. long-term unemployment

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- Comparisons at reemployment or time since reemployment not modeled
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- Follow workers for up to 3-3.5 years after reemployment
- Attempt to observe whether effects are temporary or persistent

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- Often unable to distinguish temporary from persistent effects
- Comparisons at reemployment or time since reemployment not modeled
(exception: Lucas et al. 2004)
- Cross-sectional comparisons
- Use fixed-effects models

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 - Short-term vs. long-term unemployment
- Follow workers for up to 3-3.5 years after reemployment
- Attempt to observe whether effects are temporary or persistent
- Use a difference-in-differences propensity score matching model
- Use establishment closures for a sensitivity analysis (e.g. Strully 2009)

1. Motivation + Research Questions

RQ 1: Job loss, unemployment, reemployment → psychological scars?

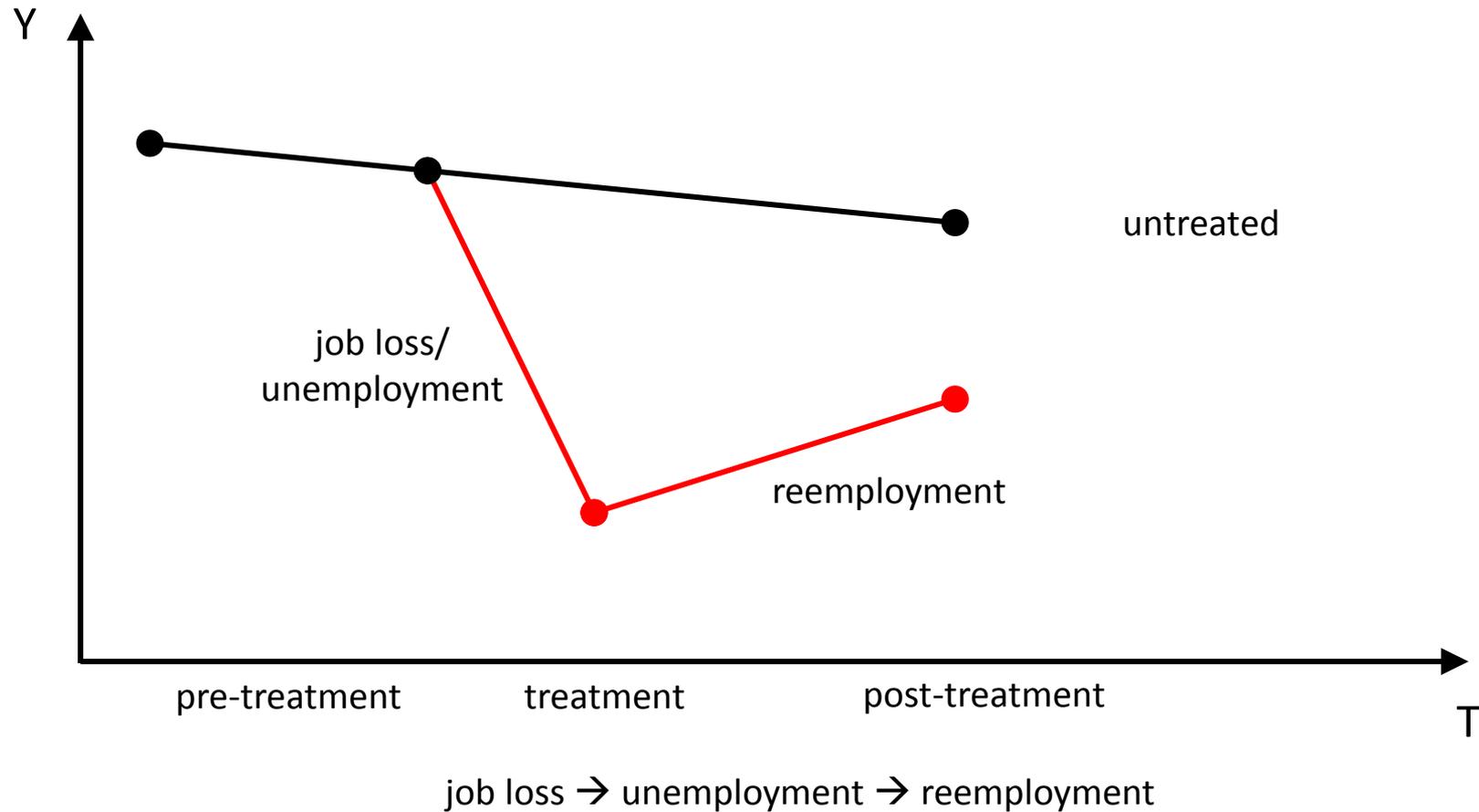
- Do job loss and unemployment have a **persistent negative effect** on workers post-unemployment subjective well-being?
 - Focus on workers who are reemployed (counter-mobility)
- Does this effect vary by a worker's **unemployment experience** and across groups of workers (effect heterogeneity)?

2. Theory and Hypotheses

What are psychological scars?

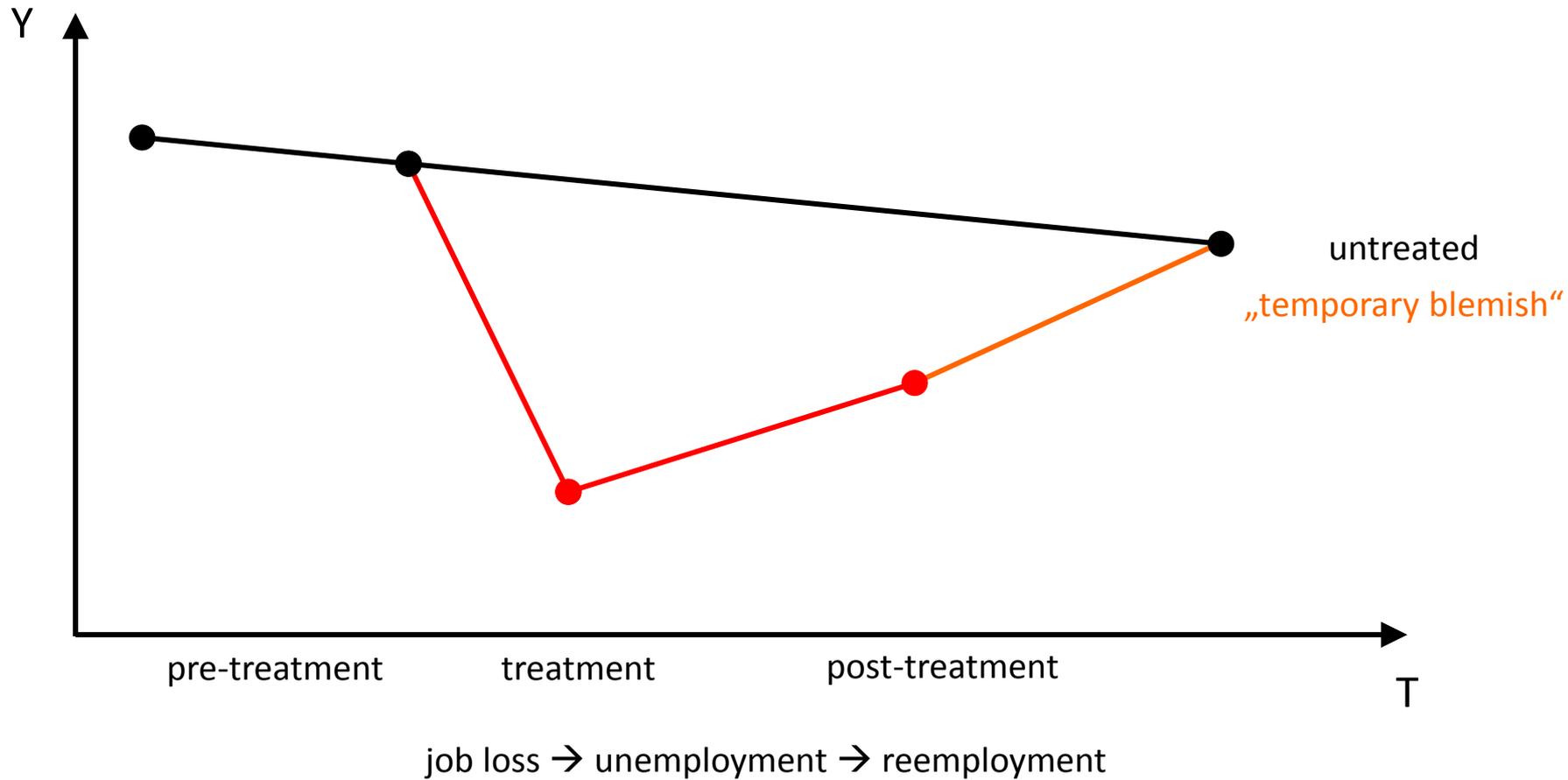
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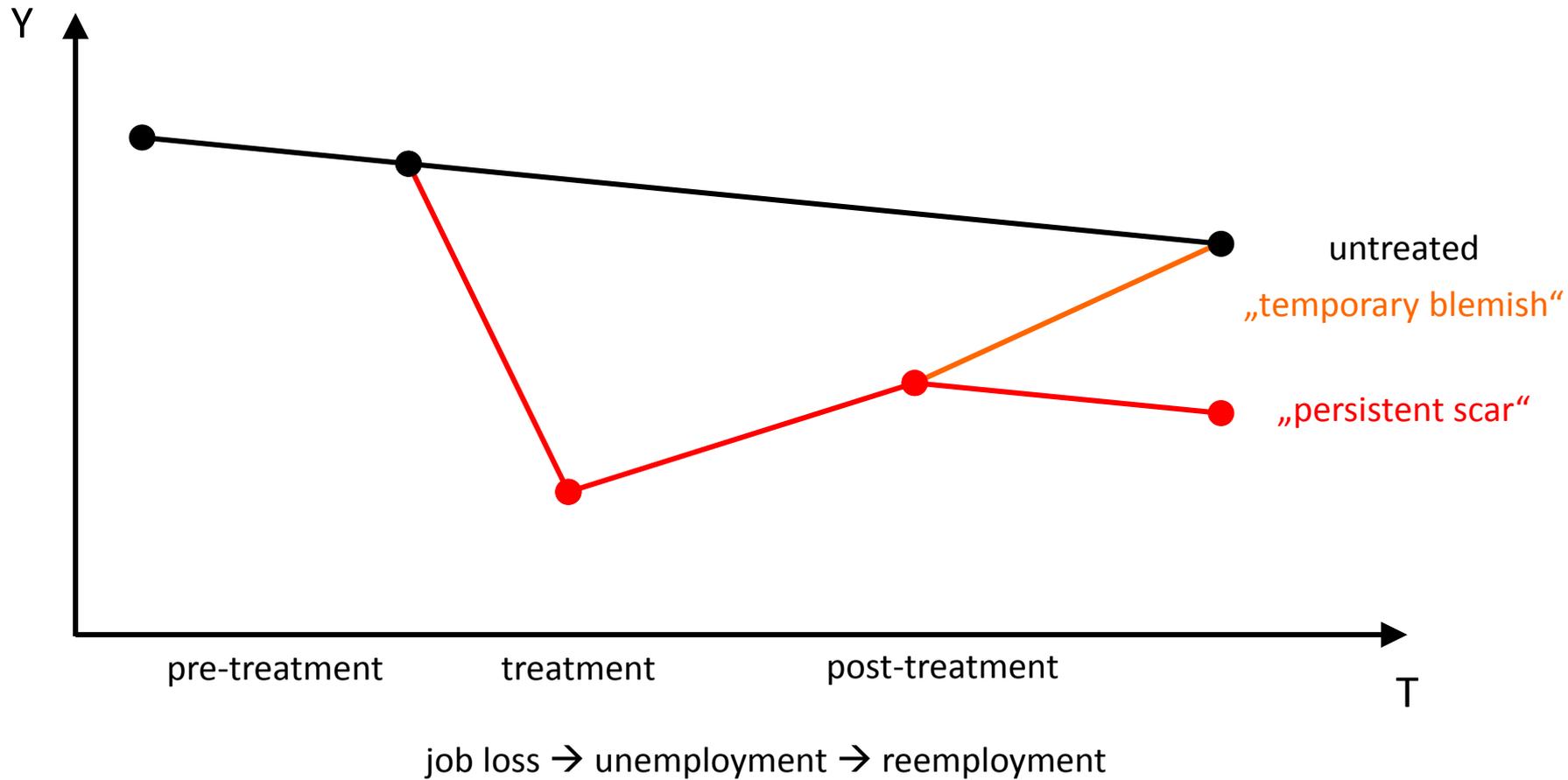
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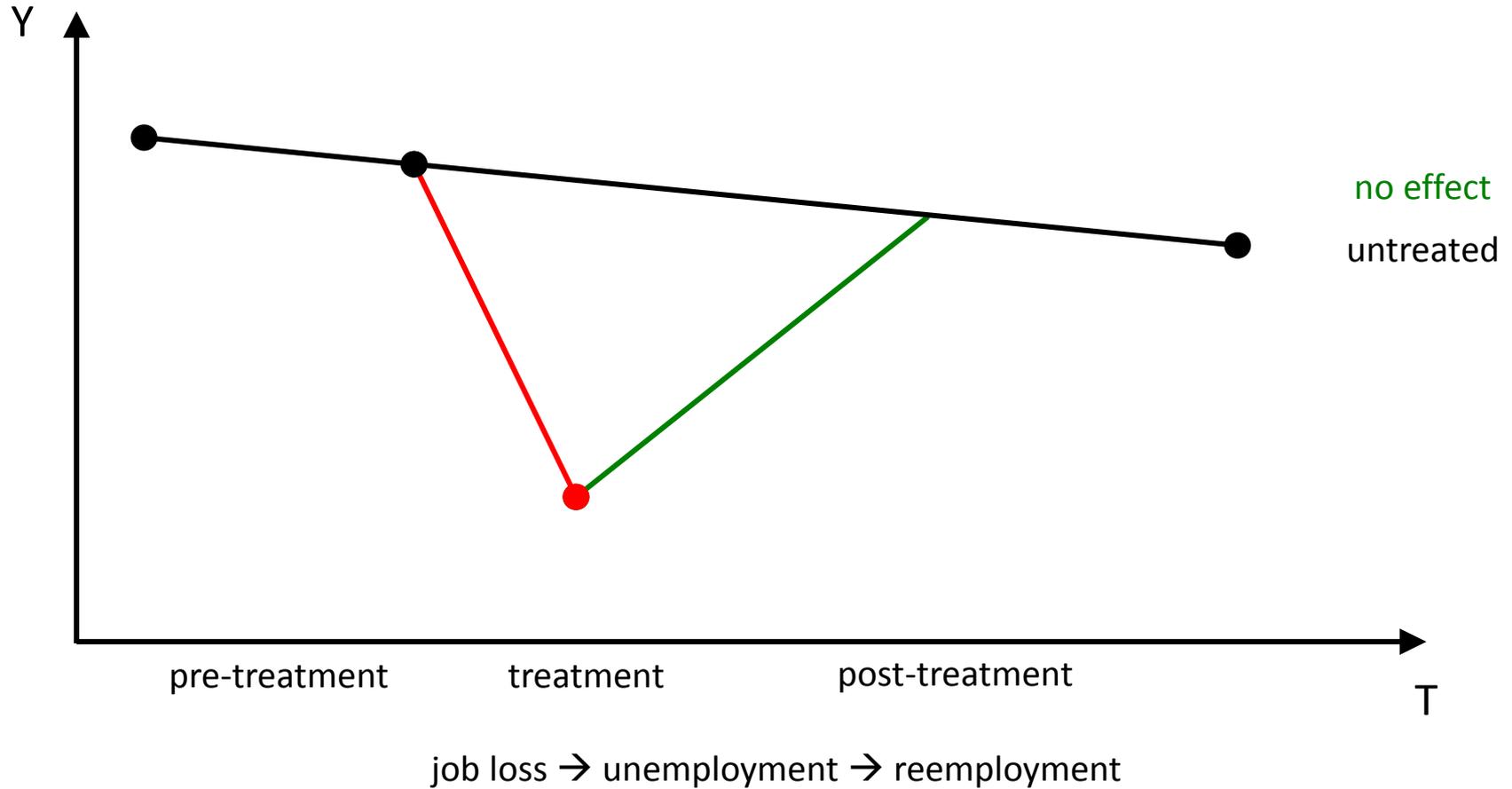
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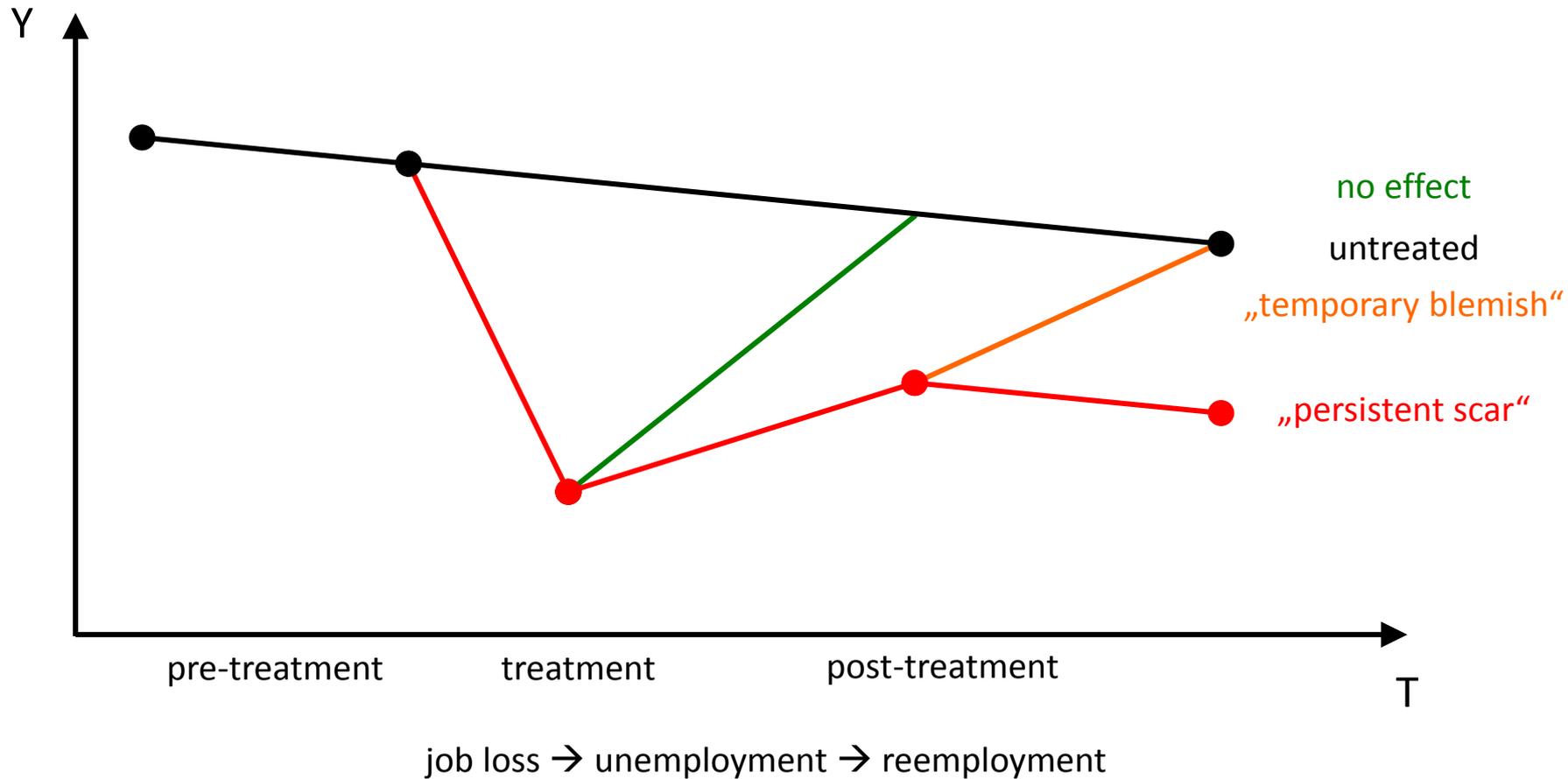
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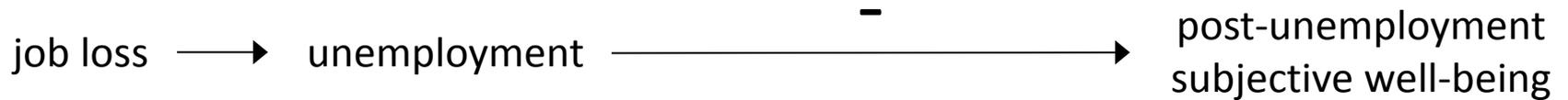
Theory

- Two lines of research
 - Job loss, unemployment → job quality
 - Job quality → subjective well-being

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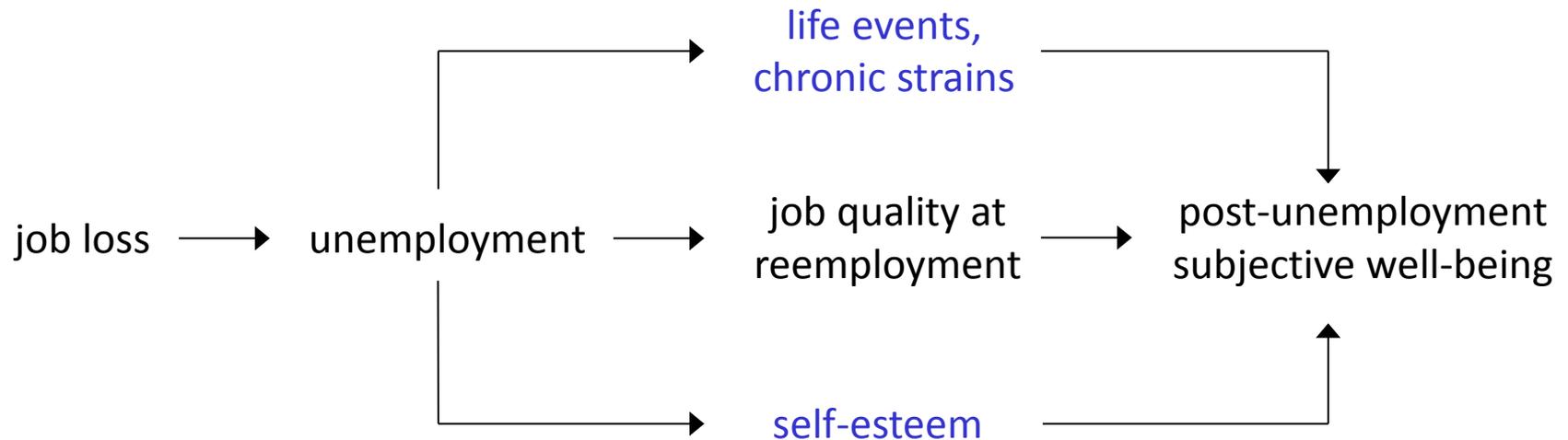
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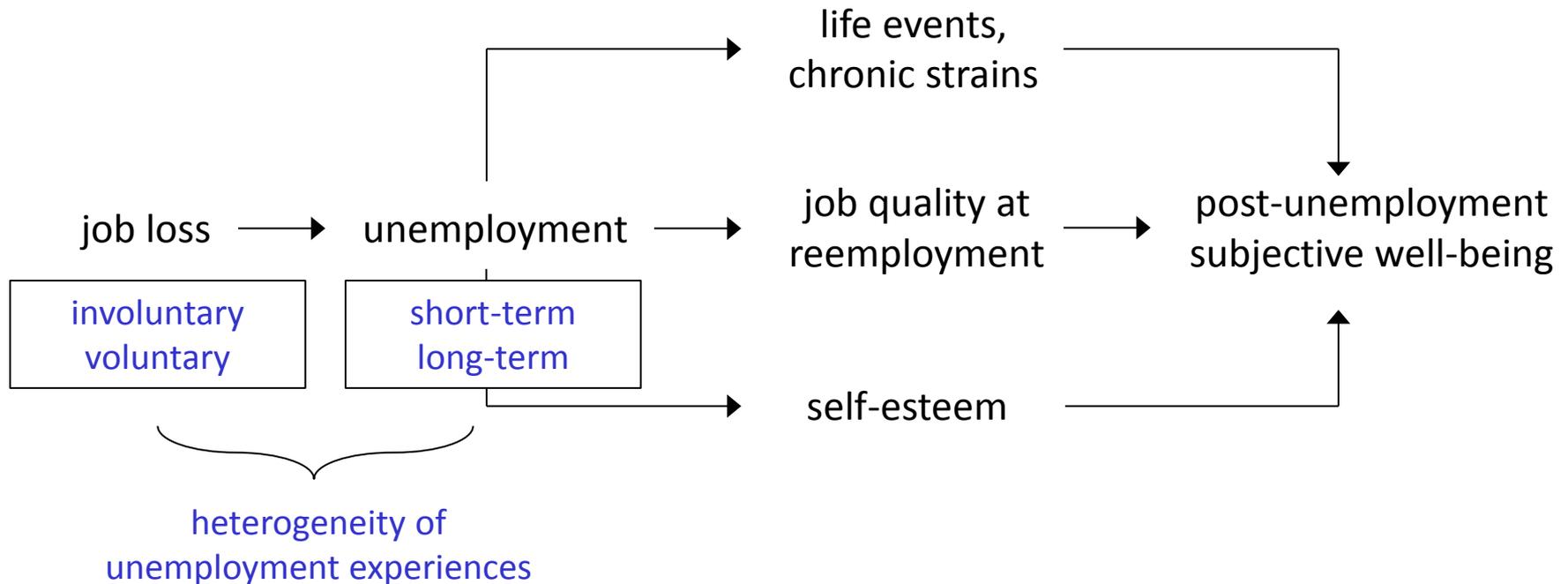
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3. Research Design

Data

- SOEP 1992-2010: yearly (p^* , h^*) and monthly (artkalen) data

Sample

- Person-spells from t (before treatment) to $t+3$ (after treatment)
 - 24641 person-spells from 11122 persons
 - Dependent employment at t , 18-59 years at t
 - No missing values on the outcome at t and $t+3$ and the covariates

Treatment and control spells

- Treatment spells (1289 spells)
 - Sequence of employment, job loss, unemployment, and reemployment
 - Reason for job loss
- Control spells (23352 spells)
 - Continuous employment and the absence of a job loss

3. Research Design

Descriptive statistics: treatment spells

Reason for job loss

	Count	%	Voluntary?		Exogenous?	
			Yes	No	Yes	No
Establishment closure	182			X	X	
Layoff/Firing	525			X		X
Fixed-term contract expired	150			X		X
Termination agreement	51		X			X
Resignation/Quitting	116		X			X
Not known	265		(Burgard et al. 2007)		(Strully 2009)	
Other reason	22					
Not specified	37					
Not reliable	74					
No job loss recorded	132					

3. Research Design

Outcomes

- Subjective well-being → life satisfaction scale (0-10)
- Dependent variable: $\Delta Y = Y_{t+k} - Y_t$ (with $k = 3, 4, 5$) (Difference-in-differences)

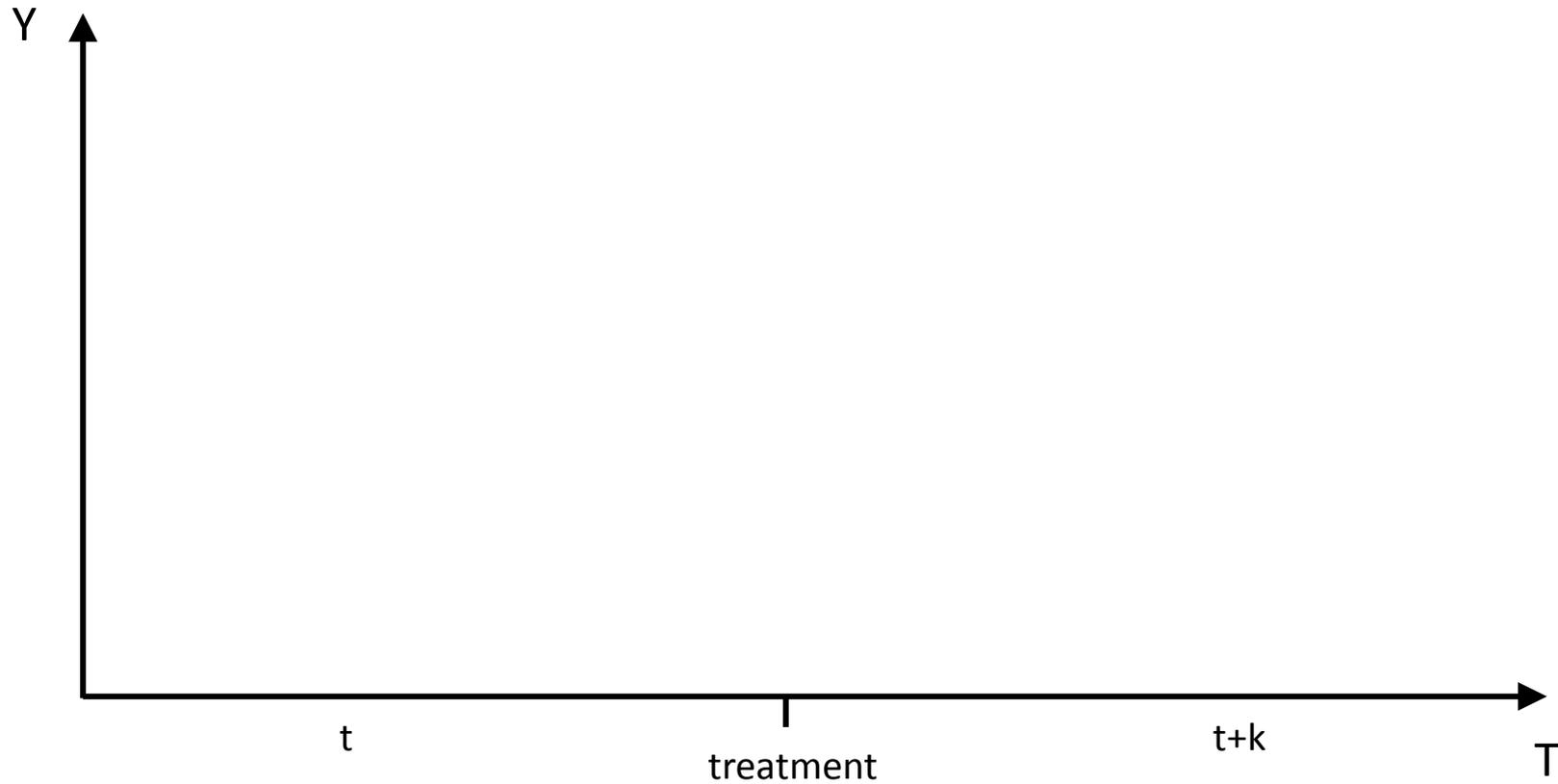
Adjustment for observed covariates X_t using propensity score matching (PSM)

- **Socio-Demographics:** Age, sex, immigrant
- **Educational attainment**
- **Work biography:** recent and total (un)employment experience
- **Job:** Occupational class, earnings, public sector, part-time, tenure, job loss worries
- **Household:** Spouse/partner, children, household income
- **Health, Well-being:** Health satisfaction, pre-treatment trends in well-being, disability
- **Context:** Spell period, spell length, region, regional unemployment (federal state)

→ [Tables](#)

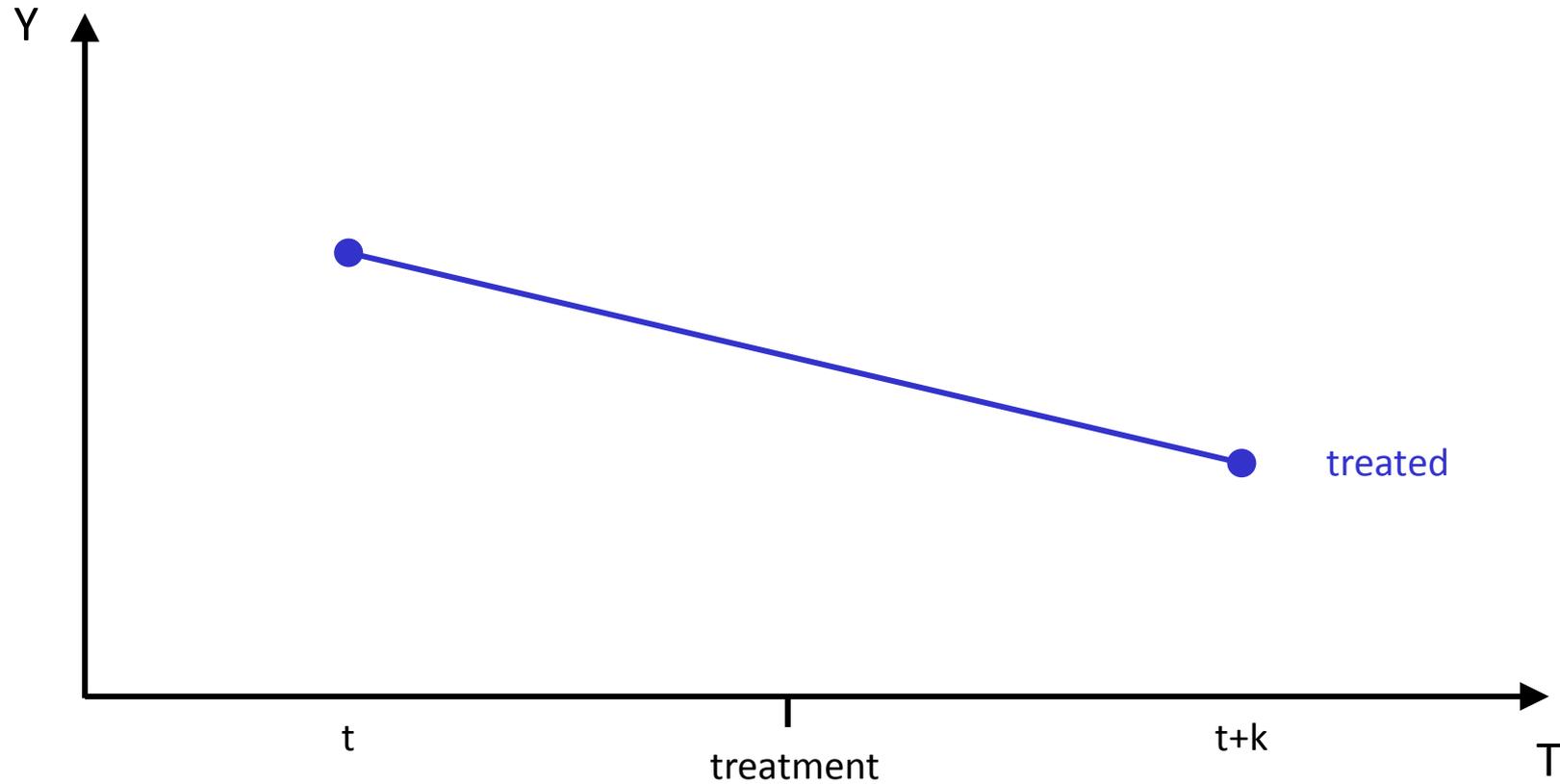
3. Research Design

Method: (conditional) difference-in-differences



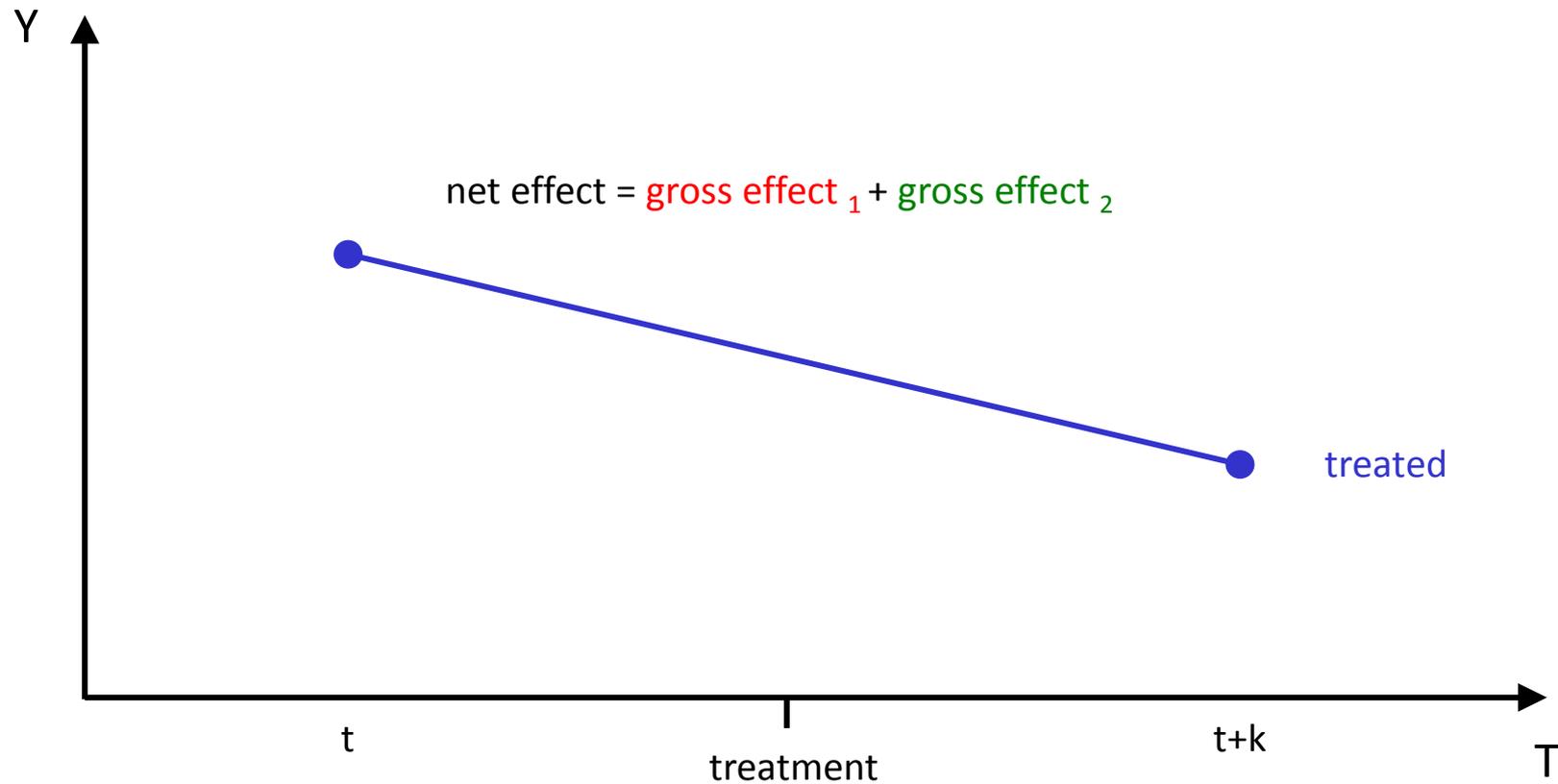
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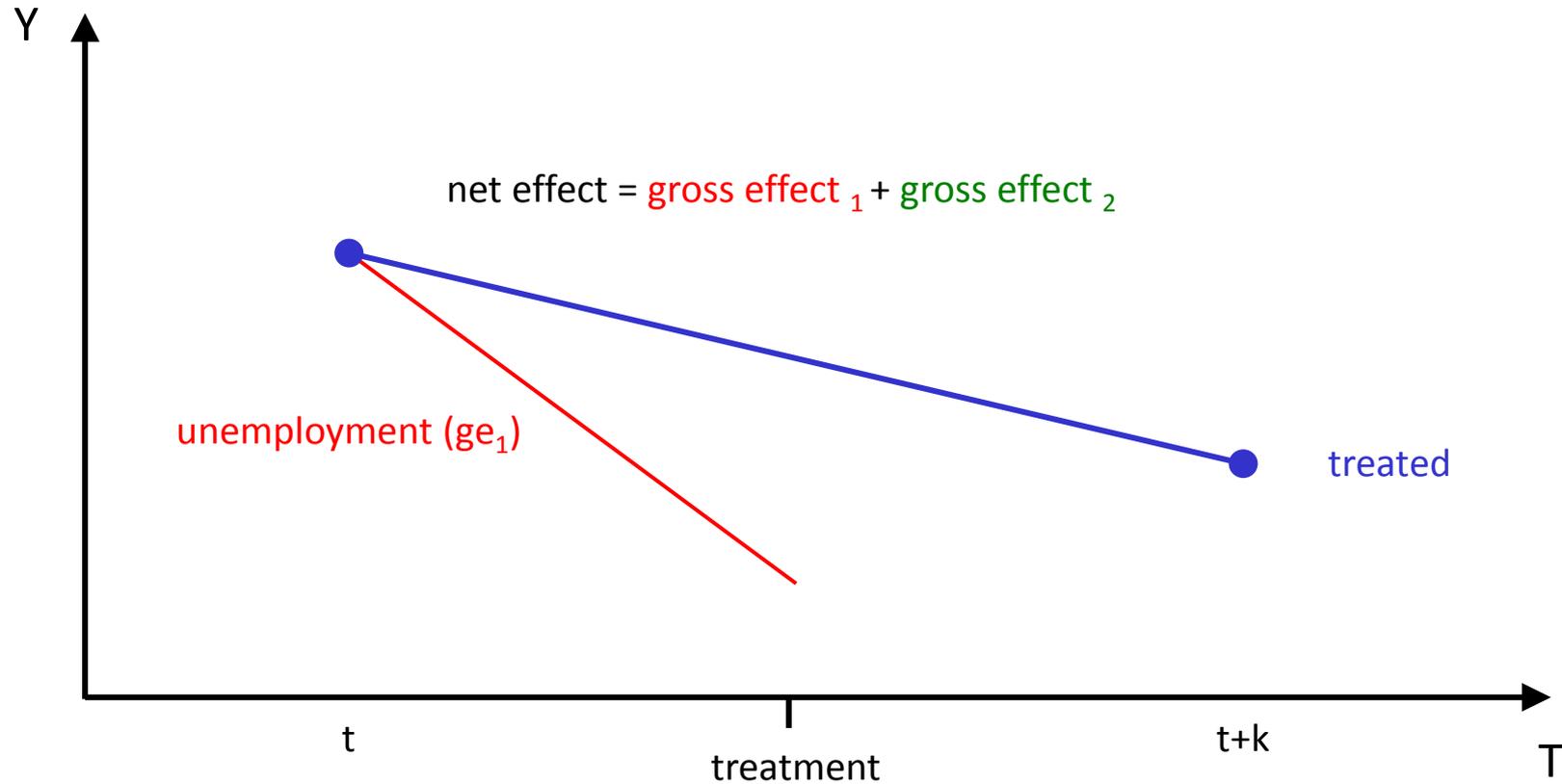
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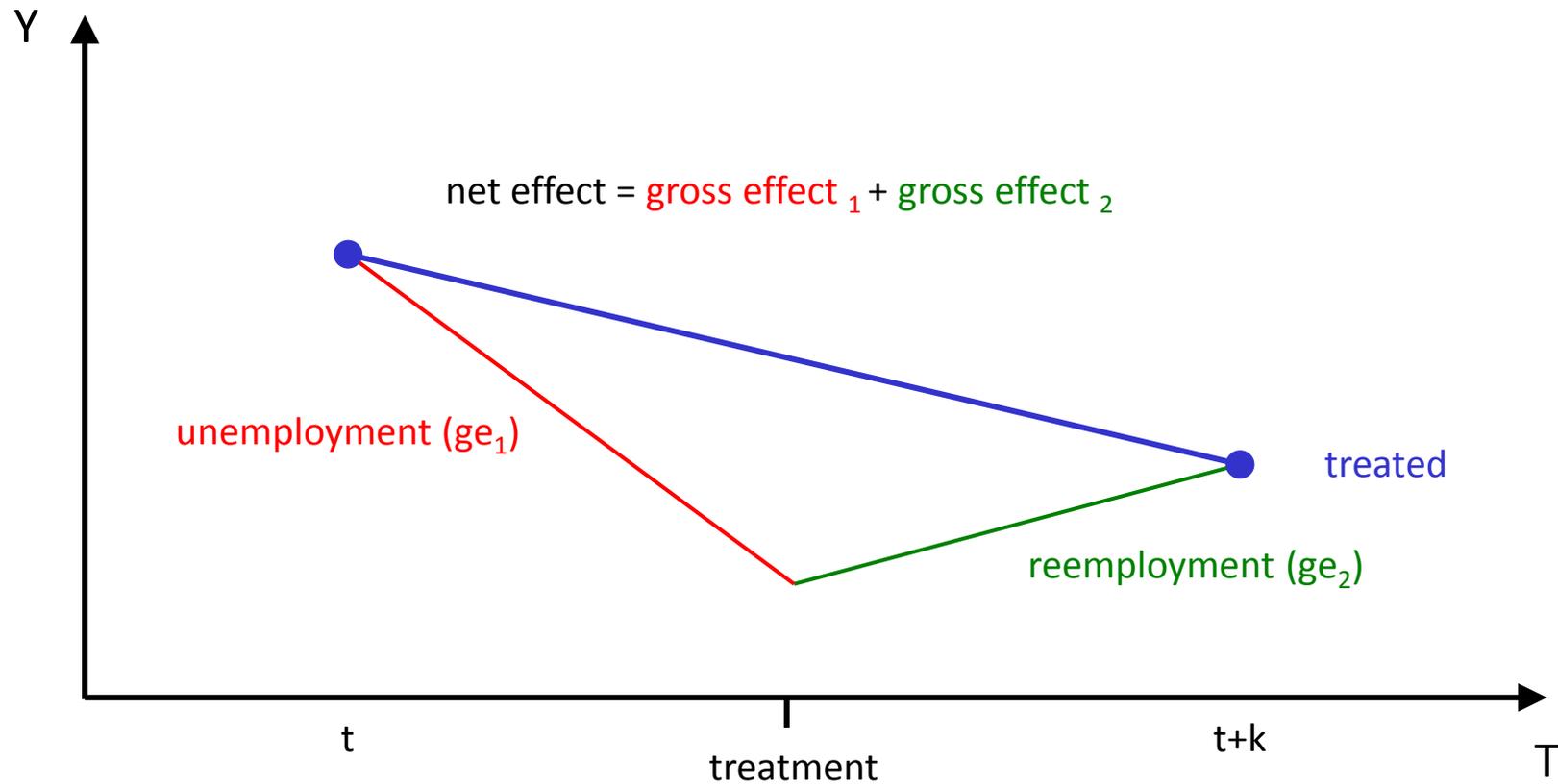
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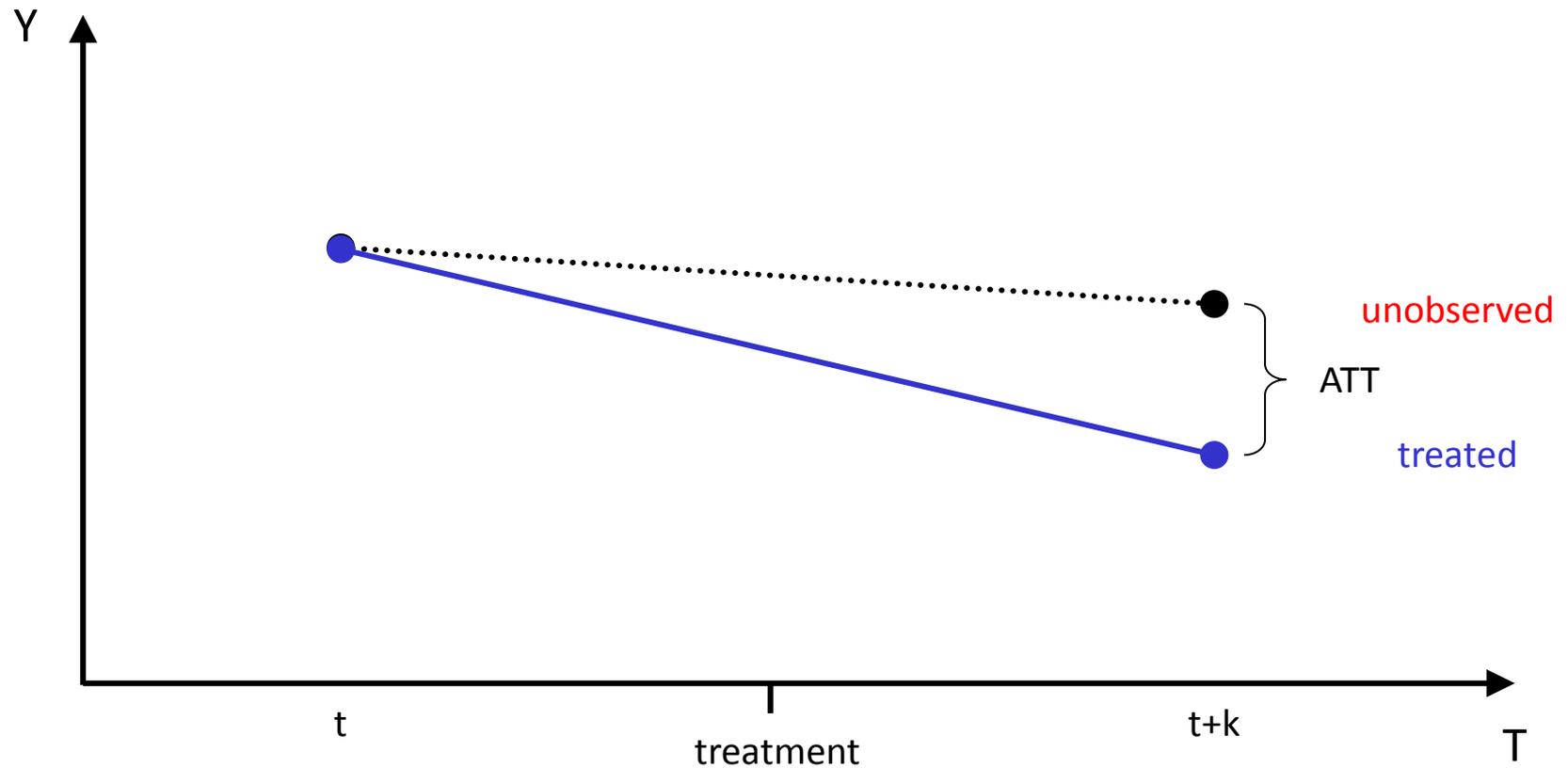
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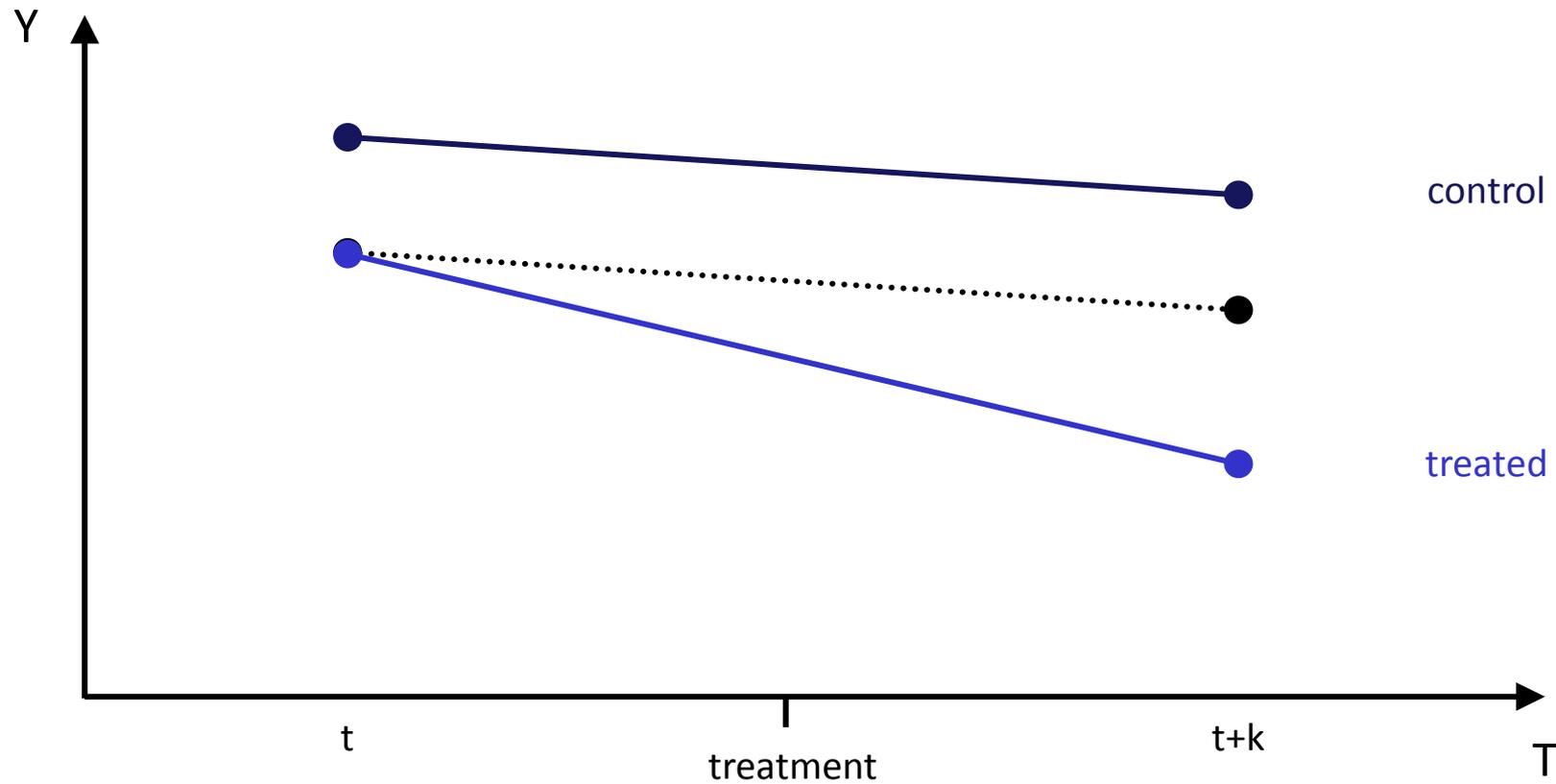
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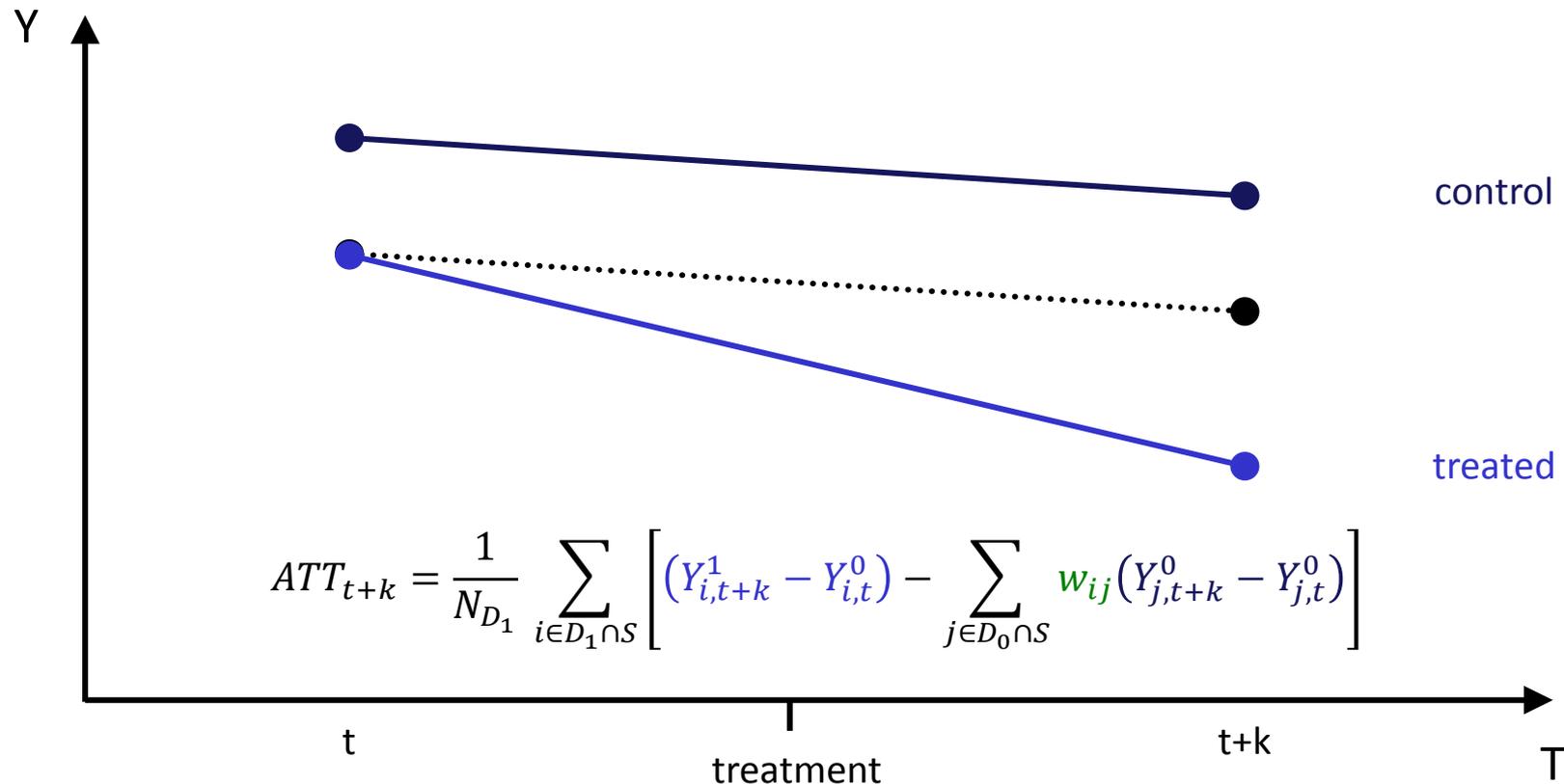
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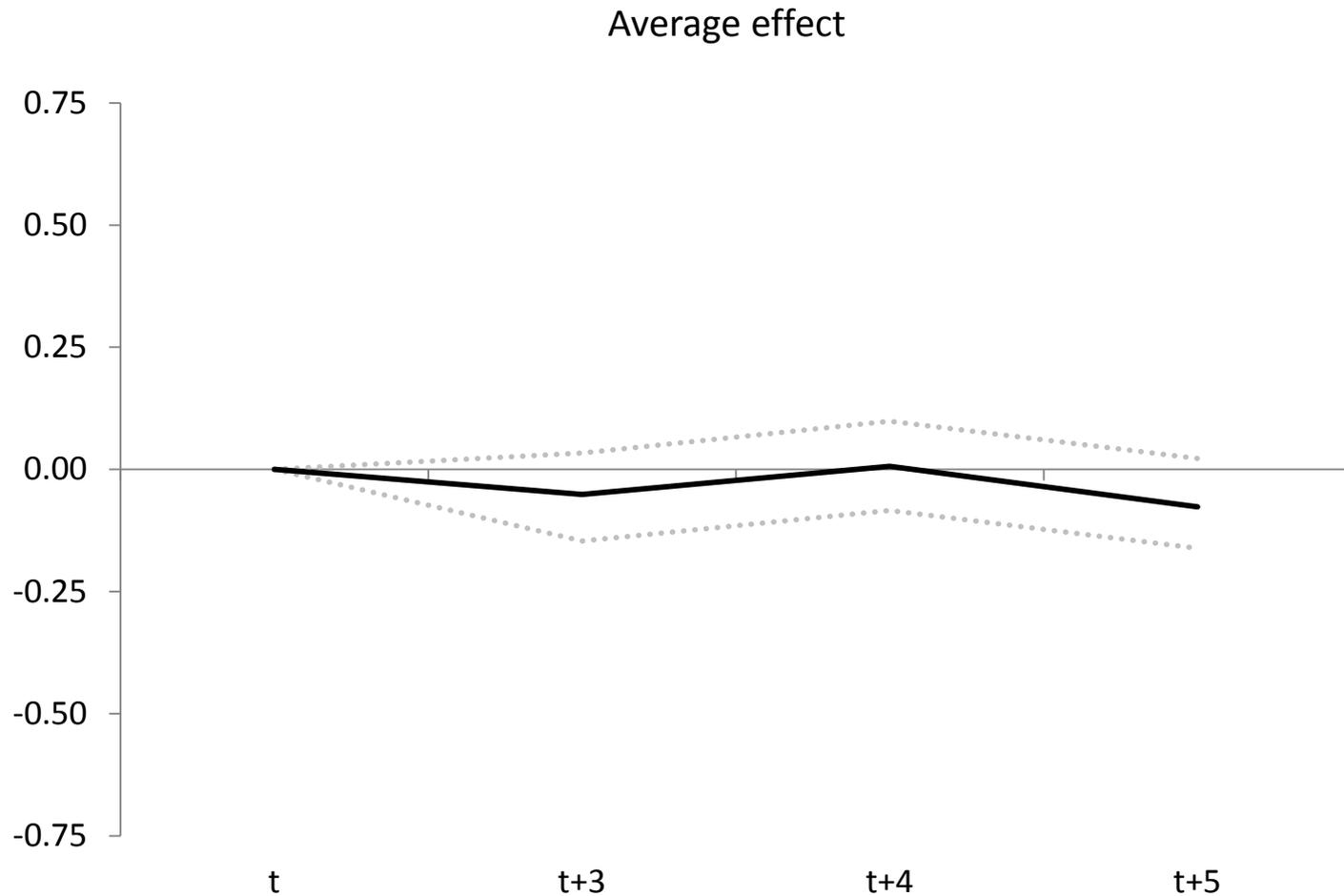
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Propensity score matching: radius matching weights
(with replacement, caliper = 0.001-0.005)

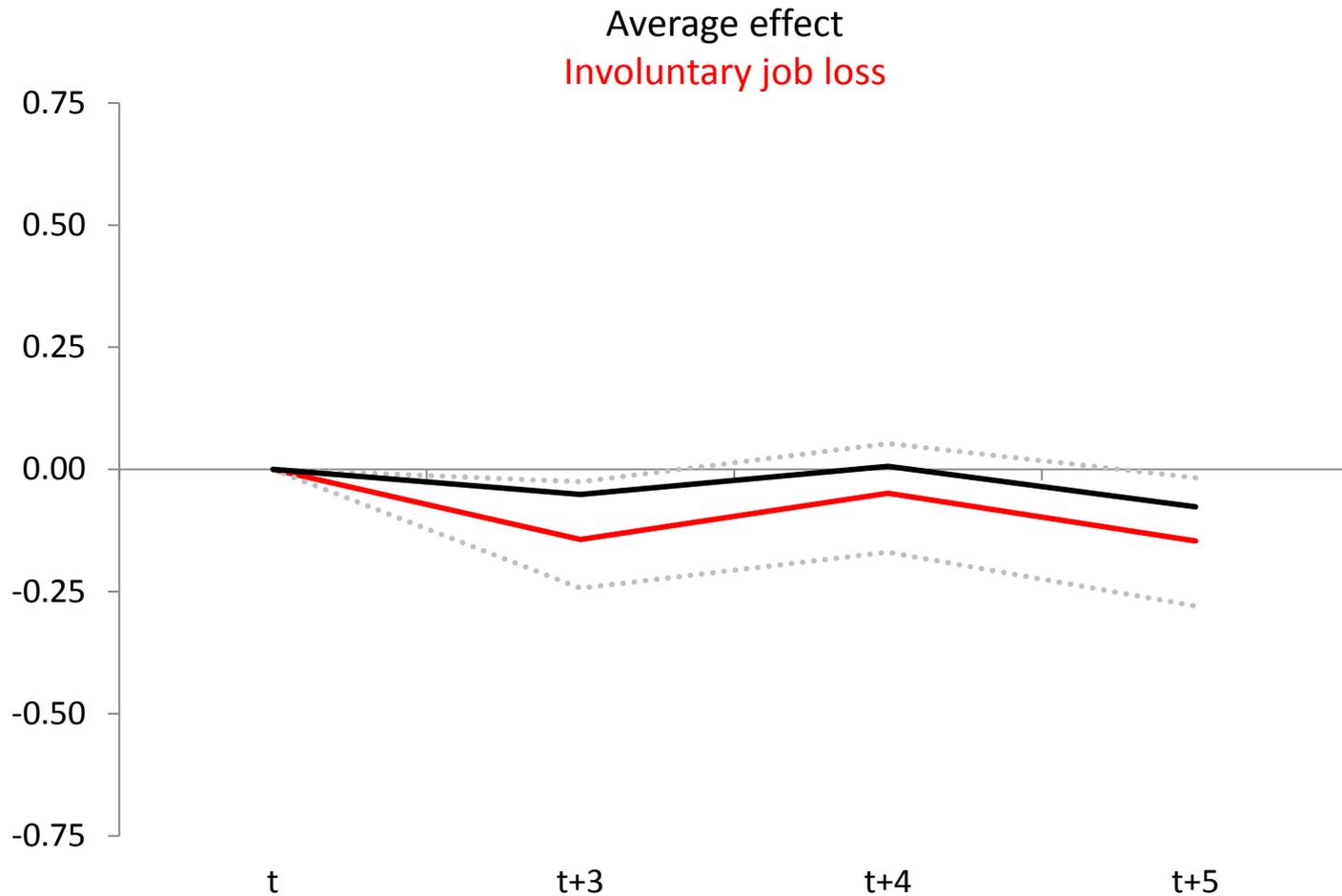
4. Results

Average treatment effect on the treated (ATT) and 90% CI



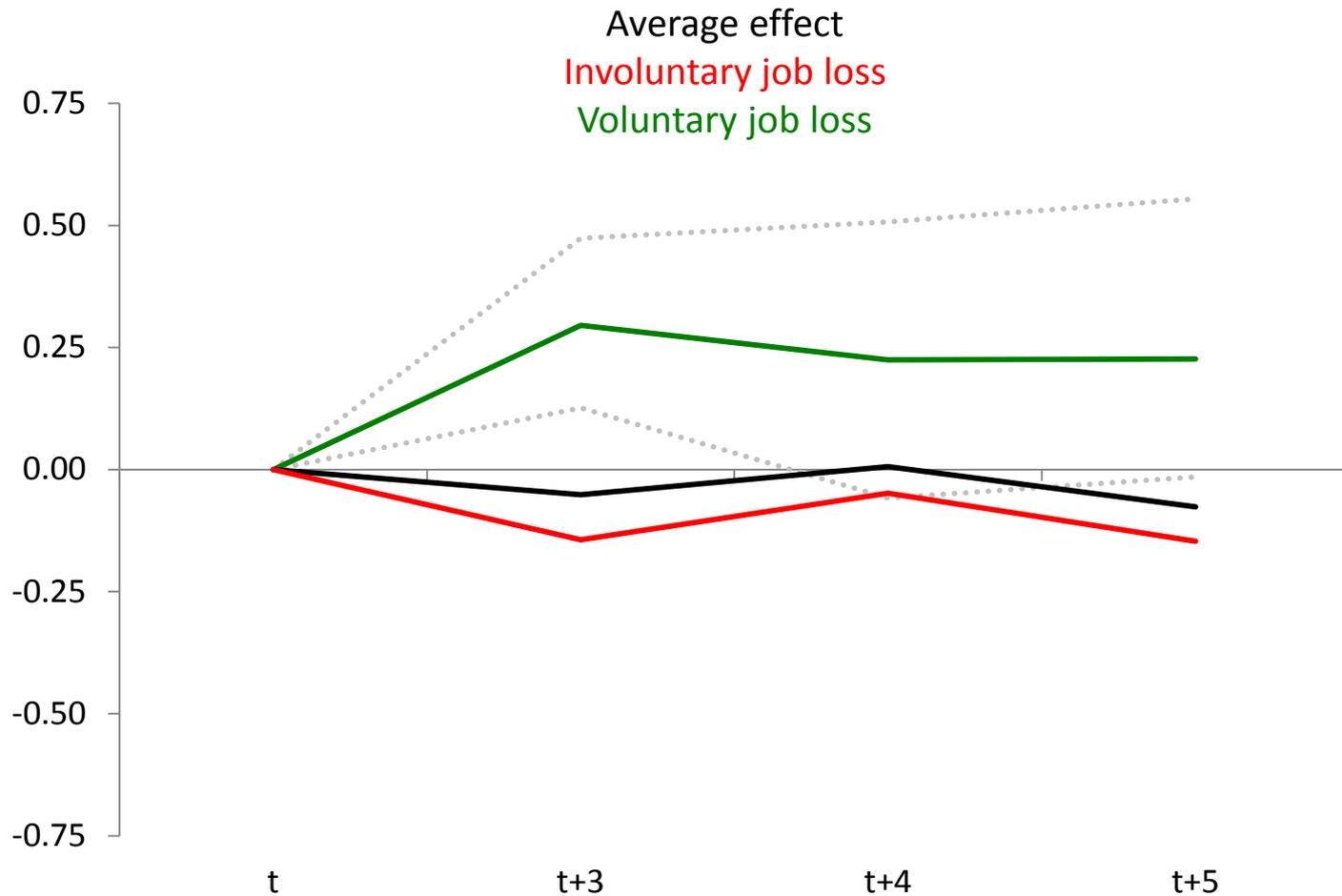
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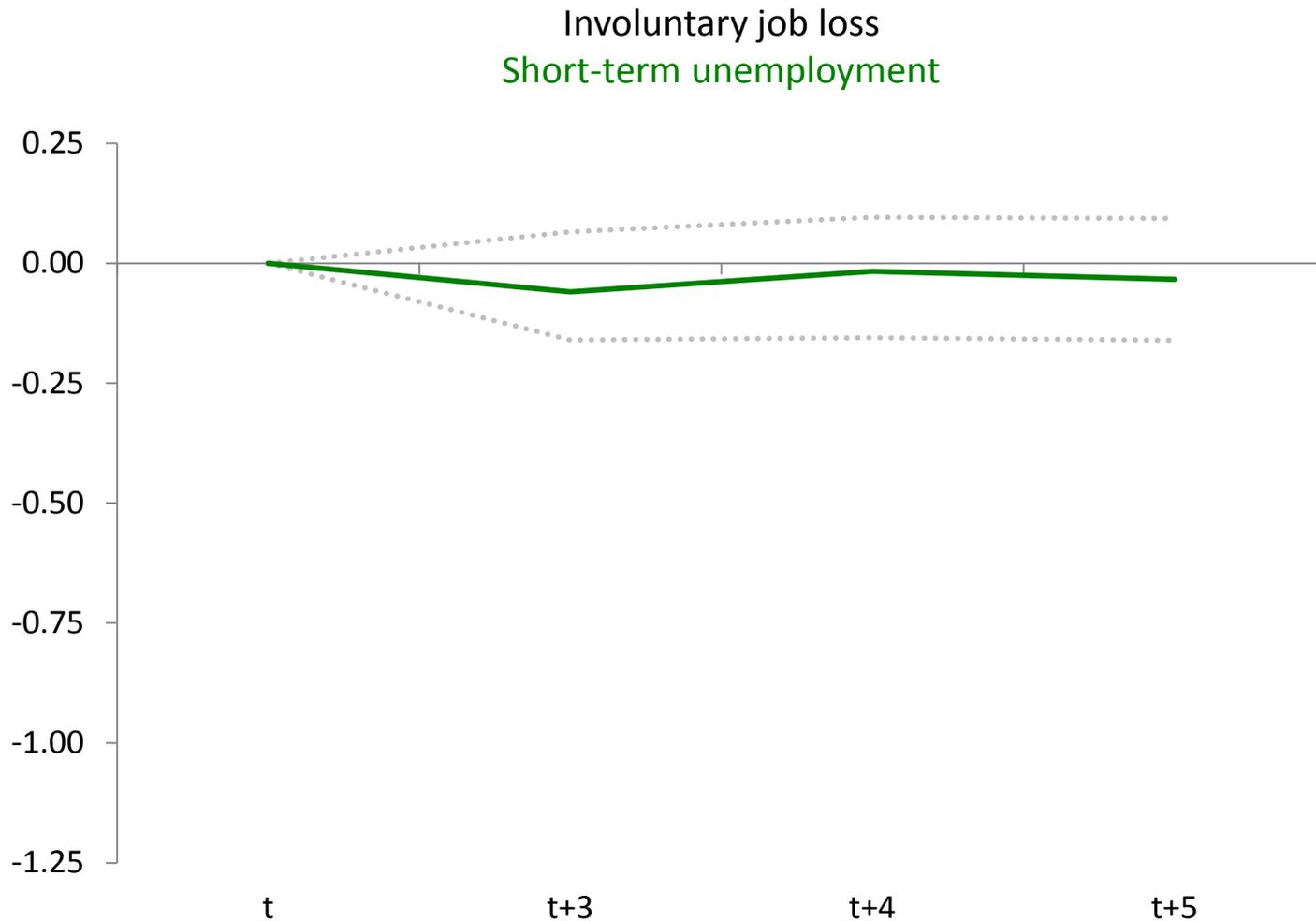
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Involuntary job loss

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Average treatment effect on the treated (ATT) and 90% CI



4. Results

Average treatment effect on the treated (ATT) and 90% CI



4. Results

Effect heterogeneity analyses (involuntary job loss)

- The effects are similar for males and females
- The potential for persistent negative effects is greatest for workers aged 45-59
- However, the magnitude of this negative effect (-0.33 at t+5) is rather small and the estimate uncertain
- The potential for persistent negative effects is greatest for workers with low education
- However, the magnitude of this negative effect (-0.27 at t+5) is rather small and the estimate uncertain

5. Conclusion

Summary and conclusion

- No psychological scars on average
- Circumstances of unemployment matter
 - Small positive effect of voluntary job loss (escape effect? upward mobility?)
 - Medium strength negative effect of involuntary job loss if followed by long-term- unemployment
 - Some groups (older workers, low educated workers) might be more vulnerable
- Shift attention from short- to long-term effects of unemployment
- Examine the circumstances of unemployment

Thank you for your attention!

jonas.vossemer@uni-oldenburg.de

Further results and future research

- Results for establishment closures only differ in $t+5$
 - however, suggests that we overestimate negative long-run effects
- Results are robust to smaller changes
(e.g. definition of involuntary job loss)
- Examine voluntary job loss more closely
- Examine mechanisms directly (i.e. post-unemployment job quality)