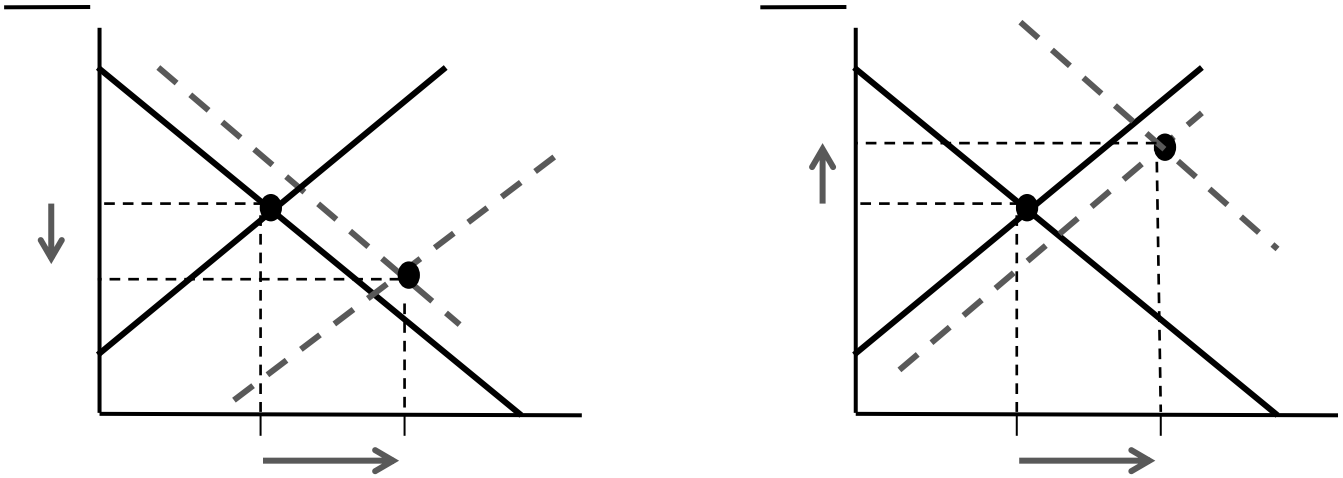
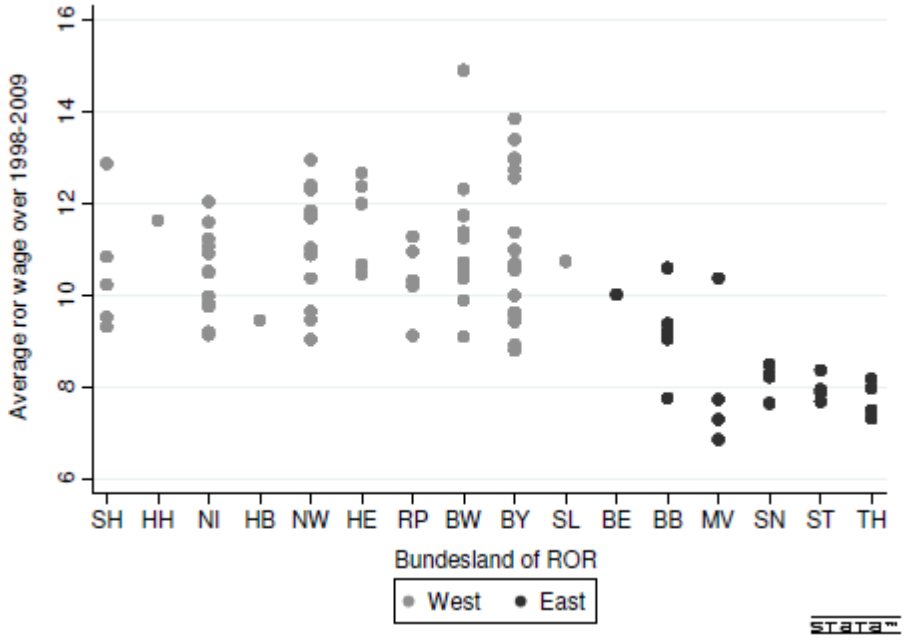
# Electronic appendix at www.jbnst.de/en

**Figure 2Negative and positive wage effects of migration**



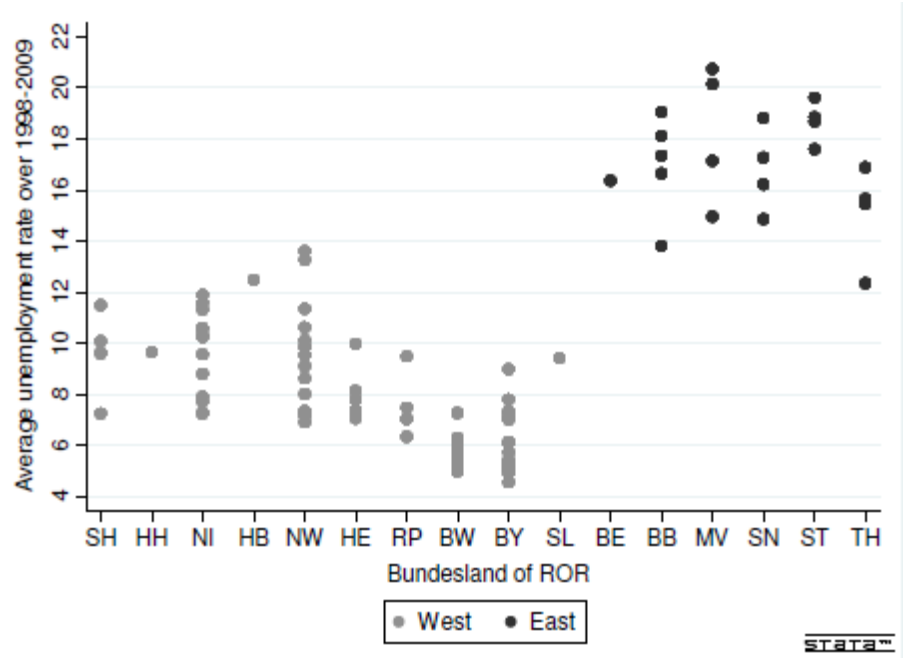
(a) (b)

**Figure 3ROR average net hourly wages for 1998-2009 over nuts1**



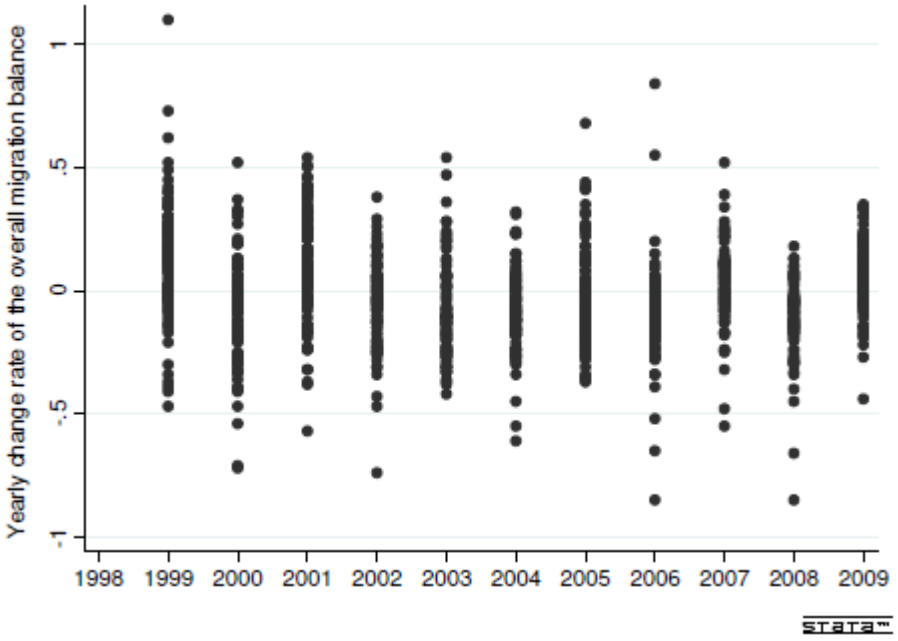

Source: SOEP

**Figure 4ROR average unemployment rates for 1998-2009 over nuts1**



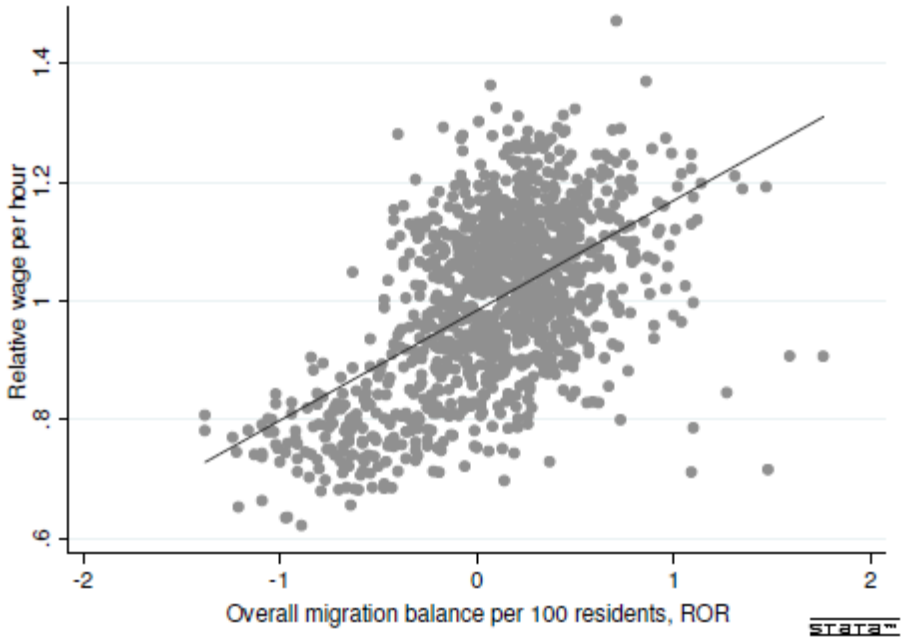

Source: INKAR

**Figure 5Yearly change of the migration balance by years**




Source: INKAR

**Figure 6Scatter diagram relating relative wage levels and regional migration balances**




Source: INKAR, SOEP

**Table 5 Regions for which increasing disparities due to migration can be expected**

| Increases of over-average wage levels | | | Decreases of under-average wage levels | | |
|---|---|---|---|---|---|
| ROR | | Nuts1 | ROR | | Nuts1 |
| **201** | **Hamburg** | **HH** | 102 | Schleswig-Holstein Nord | SH |
| 305 | Göttingen | NI | 103 | Schleswig-Holstein Ost | SH |
| 307 | Hannover | NI | 302 | Bremen-Umland | NI |
| 507 | Duisburg/Essen | NW | 303 | Bremerhaven | NI |
| 508 | Düsseldorf | NW | 304 | Emsland | NI |
| 510 | Köln | NW | 310 | Oldenburg | NI |
| 604 | Rhein-Main | HE | 312 | Ost-Friesland | NI |
| 605 | Starkenburg | HE | 313 | Südheide | NI |
| **806** | **Neckar-Alb** | **BW** | 502 | Arnsberg | NW |
| **812** | **Rhein-Neckar** | **BW** | 506 | Dortmund | NW |
| 906 | Industrieregion Mittelfranken | BY | 512 | Paderborn | NW |
| **910** | **München** | **BY** | 701 | Mittelrhein-Westerwald | RP |
| 1001 | Saar | SL | 702 | Rheinhessen-Nahe | RP |
| | | | 704 | Trier | RP |
| | | | 807 | Nordschwarzwald | BW |
| | | | 809 | Schwarzwald-Baar-Heuberg | BW |
| | | | 811 | Südlicher Oberrhein | BW |
| | | | 901 | Allgäu | BY |
| | | | 902 | Augsburg | BY |
| | | | 905 | Donau-Wald | BY |
| | | | 908 | Landshut | BY |
| | | | 911 | Oberfranken-Ost | BY |
| | | | 917 | Westmittelfranken | BY |
| | | | 1202 | Lausitz-Spreewald | BB |
| | | | **1203** | **Oderland-Spree** | **BB** |
| | | | **1204** | **Prignitz-Oberhavel** | **BB** |
| | | | **1205** | **Uckermark-Barnim** | **BB** |
| | | | 1301 | Mecklenburgische Seenplatte | MV |
| | | | 1304 | Westmecklenburg | MV |
| | | | 1402 | Oberlausitz-Niederschlesien | SN |
| | | | 1403 | Südsachsen | SN |
| | | | 1502 | Anhalt-Bitterfeld-Wittenberg | ST |
| | | | 1503 | Halle (Saale) | ST |
| | | | 1601 | Mittelthüringen | TH |
| | | | 1602 | Nordthüringen | TH |
| | | | 1603 | Ostthüringen | TH |
| | | | 1604 | Südthüringen | TH |

Notes: Increases of over-average wage levels: for the years 1998-2009 the average relative wage level is larger than 1 and the average yearly growth of the migration balance is above 0.
Declines of under-average wage levels: the average relative wage rate is smaller than 1 while the average growth of the migration balance is negative.
Regions with an ROR > 1101 belong to the eastern part of Germany

**Table 6 Estimation results for wage equations – Difference GMM and System GMM estimation for the 1. Specification using 4 lags**

| | **Reg. 1** *(DIFF, 4 lags)* | **Reg. 2** *(SYSTEM, 4 lags)* |
|---|---|---|
| ln(Rel. wage (t-1)) | 0.3830*** | 0.6359*** |
| | (0.0783) | (0.0627) |
| Rel. Unempl. Rate | 0.0174 | -0.0225 |
| | (0.0591) | (0.0269) |
| MigB | 0.0096 | 0.0421*** |
| | (0.0207) | (0.0145) |
| ComB | 0.0019 | 0.0006 |
| | (0.0033) | (0.0008) |
| Additional Controlvar. | √ | √ |
| Year dummies | √ | √ |
| Obs | 950 | 1045 |
| Regions | 95 | 95 |
| Instruments | 169 | 215 |
| AR 1 | 0.000 | 0.000 |
| AR 2 | 0.473 | 0.214 |
| Hansen | 1.000 | 1.000 |
| Difference- Hansen (1) | | 1.000 |
| Difference- Hansen (2) | 1.000 | 1.000 |

Notes: see Table 2.

**Table 7 Estimation results for wage equations – Difference GMM and System GMM estimation for the 2. Specification using 4 lags**

| | **Reg. 3** *(DIFF, 4 lags)* | **Reg. 4** *(SYSTEM, 4 lags)* |
|---|---|---|
| ln(Rel. wage (t-1)) | 0.3599*** | 0.6755*** |
| | (0.0650) | (0.0508) |
| Rel. Unempl. Rate | -0.0042 | -0.0413** |
| | (0.0527) | (0.0199) |
| DomMigB | -0.0055*** | 0.0003 |
| | (0.0013) | (0.0021) |
| ComB | -0.0011 | 0.0006 |
| | (0.0033) | (0.0006) |
| Additional Controlvar. | √ | √ |
| Year dummies | √ | √ |
| Obs | 950 | 1045 |
| Regions | 95 | 95 |
| Instruments | 169 | 215 |
| AR 1 | 0.000 | 0.000 |
| AR 2 | 0.512 | 0.163 |
| Hansen | 1.000 | 1.000 |
| Difference- Hansen (1) | | 1.000 |
| Difference- Hansen (2) | 1.000 | 1.000 |

Notes: see Table 2.

**Table 8 Estimation results for migration equations – Difference GMM and System GMM estimation using 4 lags**

| | **Reg. 5** | **Reg. 6** |
|---|---|---|
| | *(DIFF, 4 lags)* | *(SYSTEM, 4 lags)* |
| DomMigB (t-1) | 0.9137*** | 0.9133*** |
| | (0.0415) | (0.0150) |
| ln(Rel. Wage) | -0.1630 | 0.1280 |
| | (0.2412) | (0.1286) |
| rel. Unempl. | -1.0040*** | -0.0182 |
| | (0.3051) | (0.0356) |
| Rents | -0.5308*** | 0.0098 |
| | (0.1990) | (0.0231) |
| Year dummies | √ | √ |
| Obs. | 950 | 1045 |
| Regions | 95 | 95 |
| Instruments | 131 | 167 |
| AR 1 | 0.003 | 0.001 |
| AR 2 | 0.268 | 0.249 |
| Hansen | 0.985 | 1.000 |
| Difference- Hansen (1) | | 1.000 |
| Difference- Hansen (2) | 1.000 | 1.000 |

Notes see Table 2.