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## Acronyms of Physics: ?@sec-workenergy

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|------------------------------------------------------------------------|--------------------------------------------------------------------------|
| $A$ = Action                                                           | $E = E_{kin} + E_{pot}$ = total Energy                                   |
| $t$ = time                                                             | $r$ = space (distance between two points, one-dimensional length)        |
| $v$ = velocity                                                         | $c$ = light speed                                                        |
| $p$ = momentum                                                         | $F$ = Force                                                              |
| $I$ = Inertia                                                          | $\mathcal{L}$ = Lagrangian                                               |
| $\mathcal{H}$ = Hamiltonian                                            | $\mathcal{K}$ = kinetic Energy                                           |
| $\mathcal{U}$ = effective potential Energy ( $\in E_{pot}$ )           | $\mathcal{V}$ = potential Energy ( $\in E_{pot}$ )                       |
| $\mathcal{Z} = \frac{1}{2} \frac{L_0^2}{mr^2}$ = Centrifugal Potential | $V = r_1 \cdot r_2 \cdot r_3$ = Volume                                   |
| $k$ = Wave Vector ("curvature")                                        | $W$ = Work (done vs. received)                                           |
| $P$ = Pressure                                                         | $L_0$ = angular momentum                                                 |
| $T$ = endogen Temperature                                              | $H$ = exogen Heat                                                        |
| $U$ = endogen Energy ( $E_{kin} + E_{pot}$ )                           | $\Phi = \frac{\mathcal{V}}{q}$ = Electric Potential                      |
| $\mathcal{A}$ = Magnetic Potential                                     | $b_0$ = Boltzmann constant                                               |
| $g_0$ = Gas constant                                                   | $m$ = mass                                                               |
| $\epsilon_0$ = electric constant                                       | $\mu_0$ = magnetic constant                                              |
| $\mathcal{E}$ = Electric Field                                         | $\mathcal{B}$ = Magnetic Field                                           |
| $n$ = amount of particles (objects)                                    | $H\mathcal{C} = m \cdot c_0 = \frac{\Delta H}{\Delta T}$ = heat capacity |
| $c_0 = \frac{1}{m} \frac{\Delta H}{\Delta T}$ = specific heat          | $S = b_0 \cdot \ln(\Omega)$ = Entropy (macro state)                      |
| $l$ = Moll quantity                                                    | $\Omega$ = micro states                                                  |
| $z$ = amount of constraints (boundry conditions)                       | $f = 3n \pm z$ = degrees of freedom, $f = 1$ and $n = 2$                 |
| $\kappa = \frac{c_P}{c_V} = \frac{f+2}{f}$ = adiabaty                  | $\iota = \kappa$ adiabat                                                 |
| $\iota = 0$ isobar                                                     | $\iota = 1$ isotherm                                                     |
| $\iota = \infty$ isochor                                               | \$n = amount of objectes (particles), $n = 2$ and $f = 1$                |

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## Acronyms of Economy: ?@sec-productivityvalue

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|---------------------------------------------------|---------------------------------------------------------|
| $T$ = Taxes                                       | $M$ = Import of Goods and Services from foreing symstes |
| $G$ = Goverment Expenses, incl. Social Insurances | $X$ = Export of Goods and Services to foreign system    |
| $Y$ = Income of Economy from Turnover             | $G_A$ = Govermental Subsidies                           |
| $D_A$ = Depreciations (Reinvestments) on Assets   | $V_N$ = Net Naötional Production, Society NNP           |
| $N$ = Monetary Quantity                           | $Q$ = Monetary Turnover Velocity                        |

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|----------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| $V_I$ = Gross Domestic Product GDP = $\frac{Output}{Input}$ , Tradevolume                                      | $P$ = Price niveau (Inflation adjusted Value)                                                                                                          |
| $L$ = Wages from Labor Work (Salaries, ...)                                                                    | $R$ = Returns, Earnings, Gains                                                                                                                         |
| $Y_A$ = Income of priv. Business Households<br>(Companies, Services, Real Estate Rentals,<br>Retained Profits) | $Y_H$ = Income from priv. Capital Households<br>(Interests, Coupons, Dividends, ... of priv.<br>Assets, Investmens, Credits, Debits, Bonds,<br>Equity) |
| $T_A$ = Tax on Capital of Corporate Companies<br>(Business Assets)                                             | $Y_G$ = Governmental Income from Assets,<br>Services, Social Institutions/Insurances                                                                   |
| $Z_G$ = Interests on Governmental Debt                                                                         | $V_S$ = Gross National Produkt, Society GNP                                                                                                            |
| $I$ = Investments on Assets, incl. Storage<br>Change                                                           | $R_M$ = Capital Earnings and Wages from<br>Abroad (from Foreign System)                                                                                |
| $R_X$ Capital Earnings and Wages to Abroad<br>(to Foreign System)                                              | $W$ = Expensens, costs from human and<br>machinary work efforts                                                                                        |

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