

# Structural Vector Autoregressive Analysis

## WS 2023/2024

### Helmut Lütkepohl

#### Syllabus

1. Vector Autoregressive Models
2. Vector Error Correction Models
3. Structural VAR Tools
4. Bayesian VAR Analysis
5. Identification by Short-Run Restrictions
6. Identification by Long-Run Restrictions
7. Inference for Impulse Responses
8. Sign Restrictions
9. Identification by Heteroskedasticity or Non-Gaussianity
10. Identification Based on External Instruments
11. Structural VAR Analysis in a Data-Rich Environment
12. Nonfundamental Shocks

**Literature:** Lutz Kilian and Helmut Lütkepohl (2017), *Structural Vector Autoregressive Analysis*, Cambridge University Press.

Helmut Lütkepohl (2005), *New Introduction to Multiple Time Series Analysis*, Springer-Verlag.

**Time:** 16 × 90 min lectures during the period 9 - 20 October 2023, 9:00-12:00.

**Location:** Ostrom Hall, DIW Berlin, Mohrenstr. 58, 10117 Berlin.

**ECTS:** 6.

The grade for the course will be based on a paper which is due shortly after the end of the course. Details will be announced in class.