SEM Application

Outline

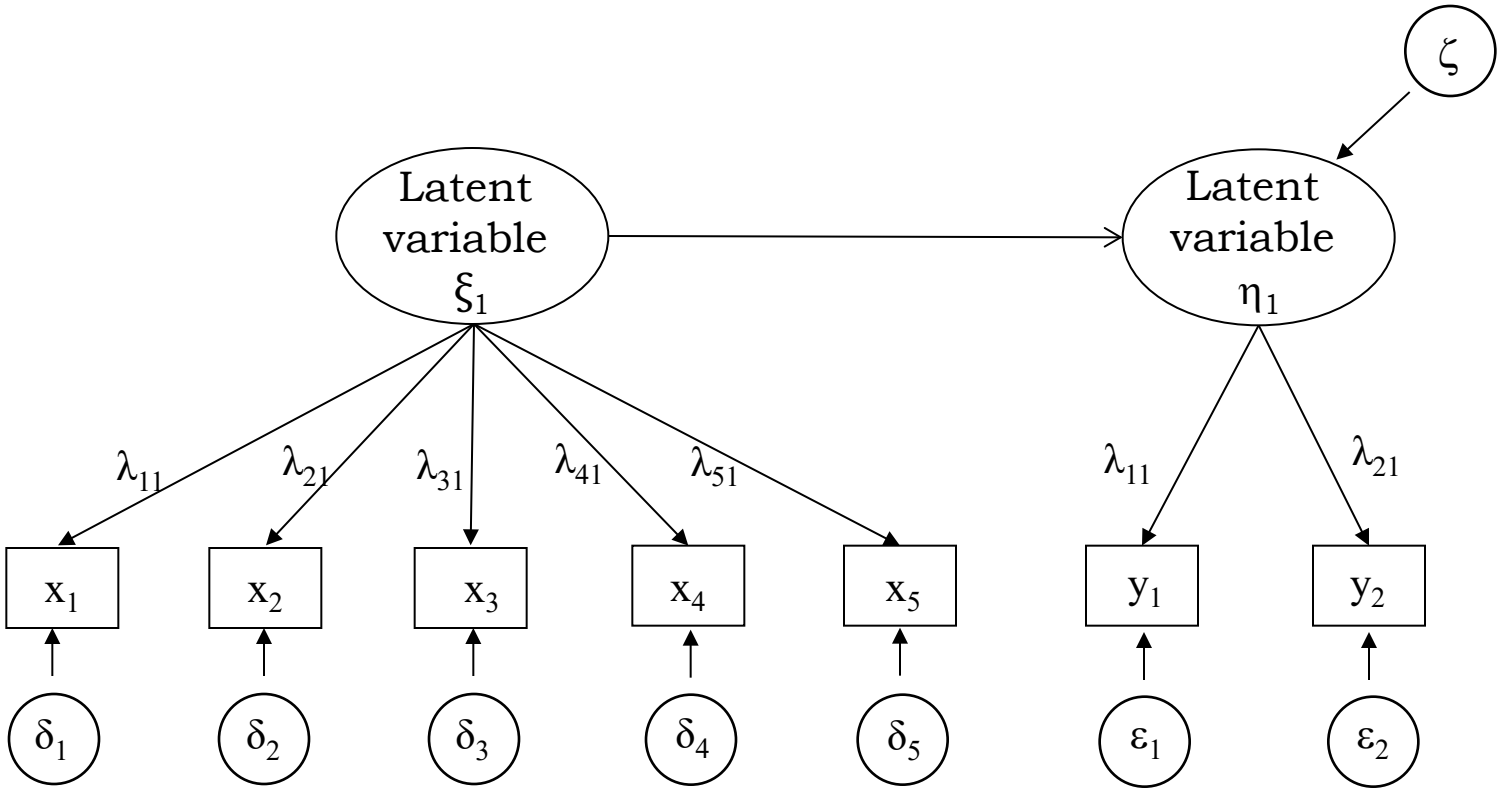
1. The model

2. Check of measurement model 1

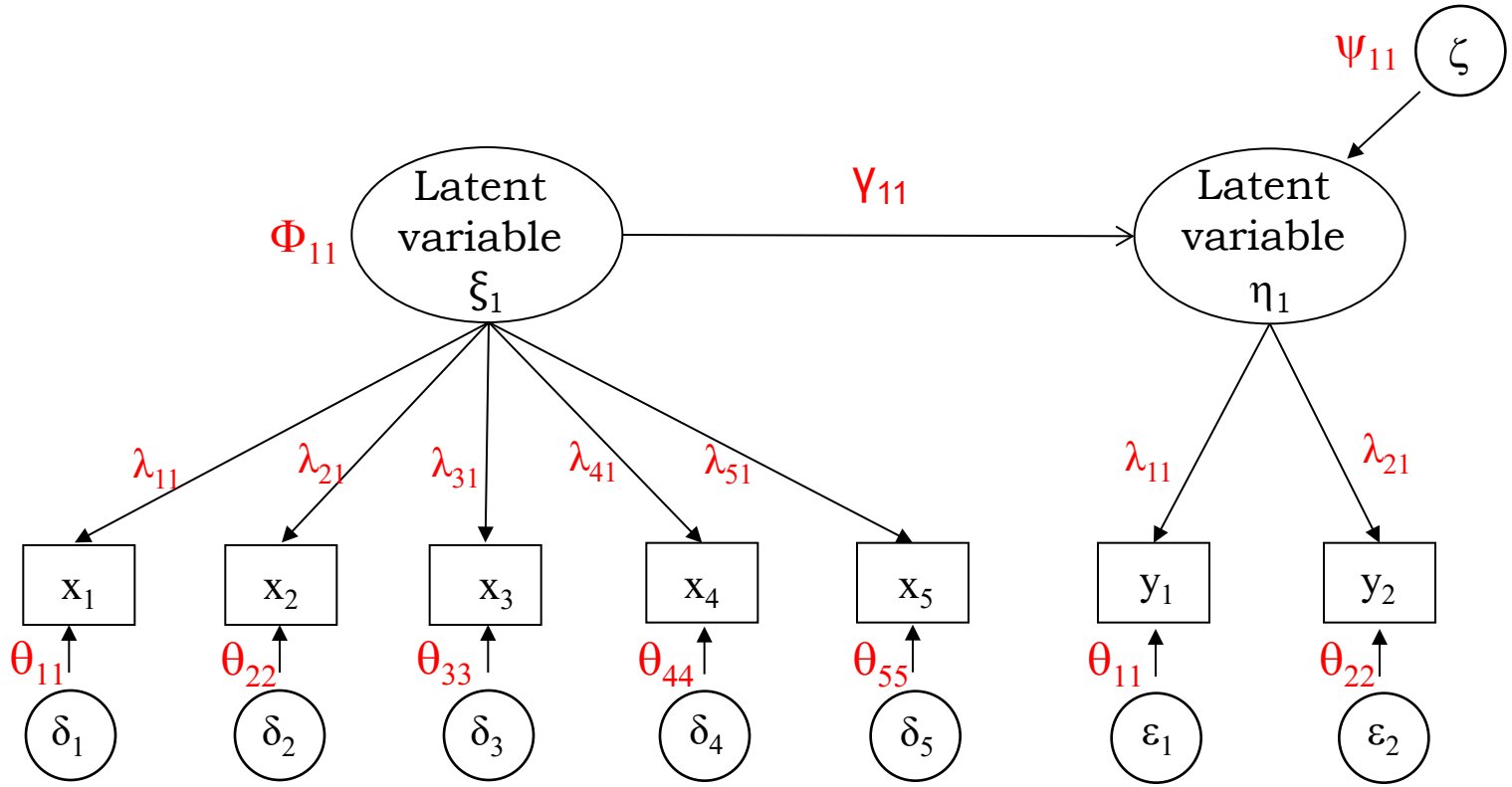
3. Check of measurement model 2

4. Check of the complete model

The to-be-investigated model

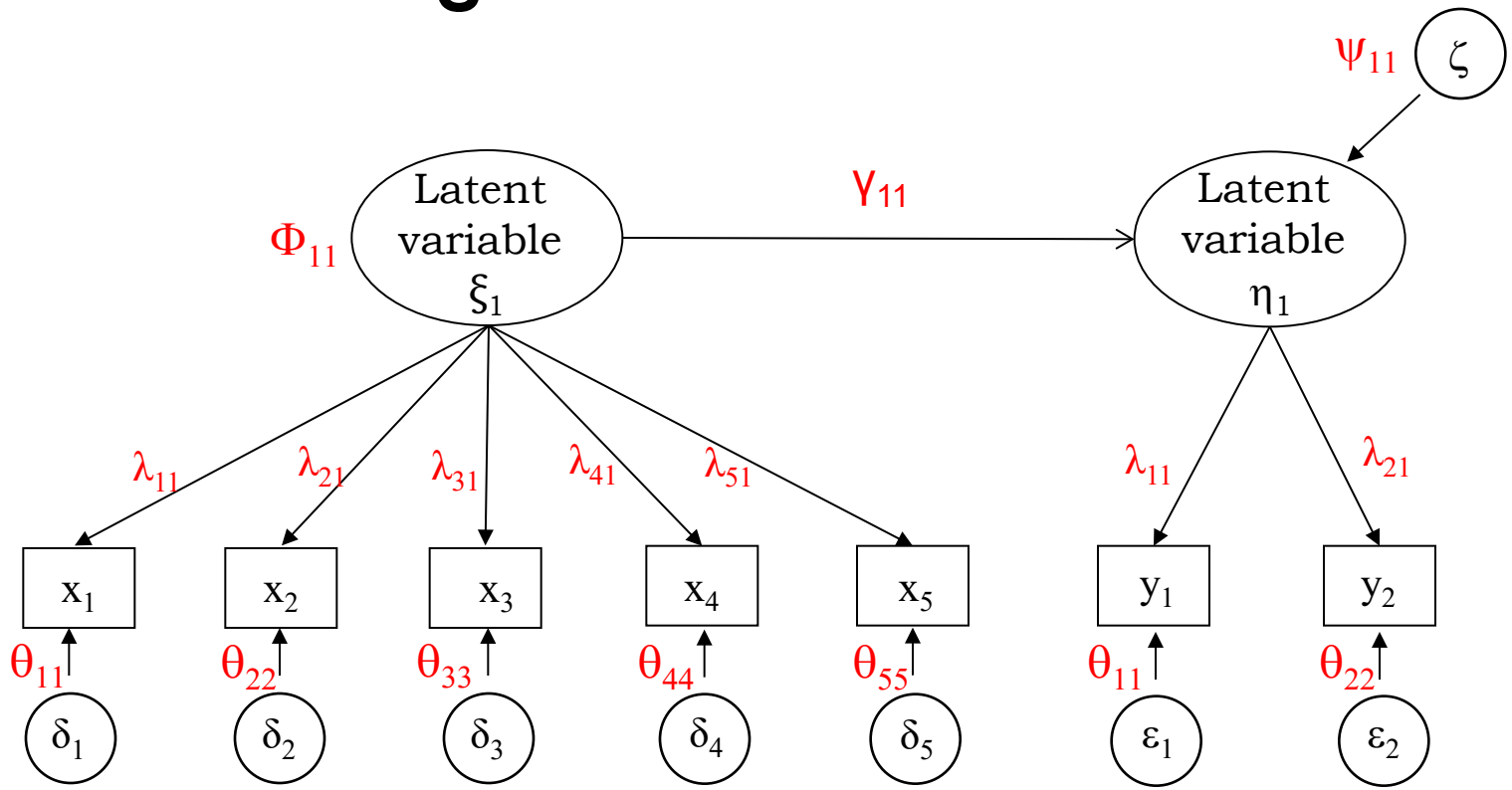


The to-be-investigated model



The to-be-investigated model

What are the degrees of freedom ?



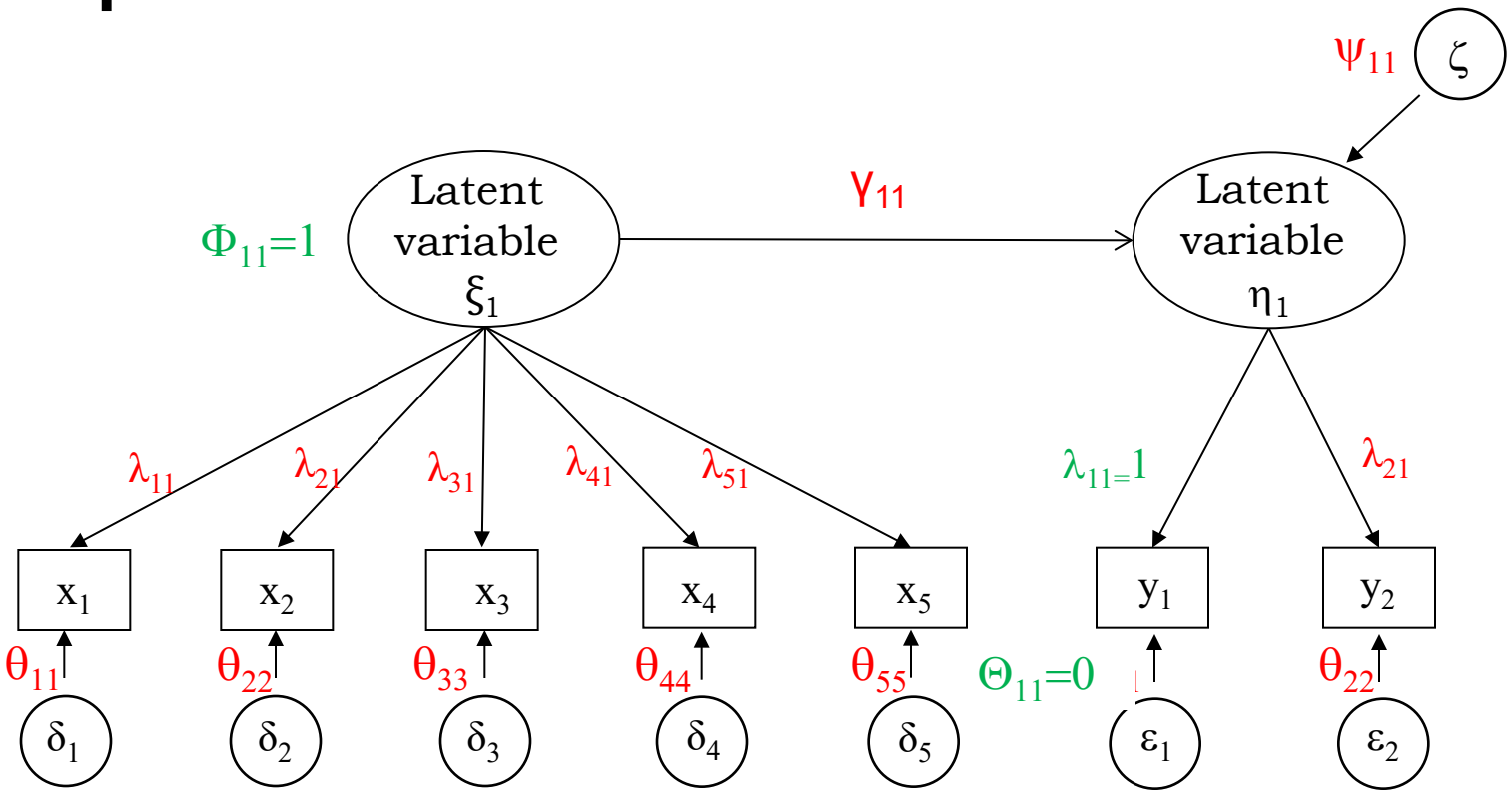
… for the whole model ? 11

… for the *first* model of measurement ? 4

… for the *second* model of measurement ? -2

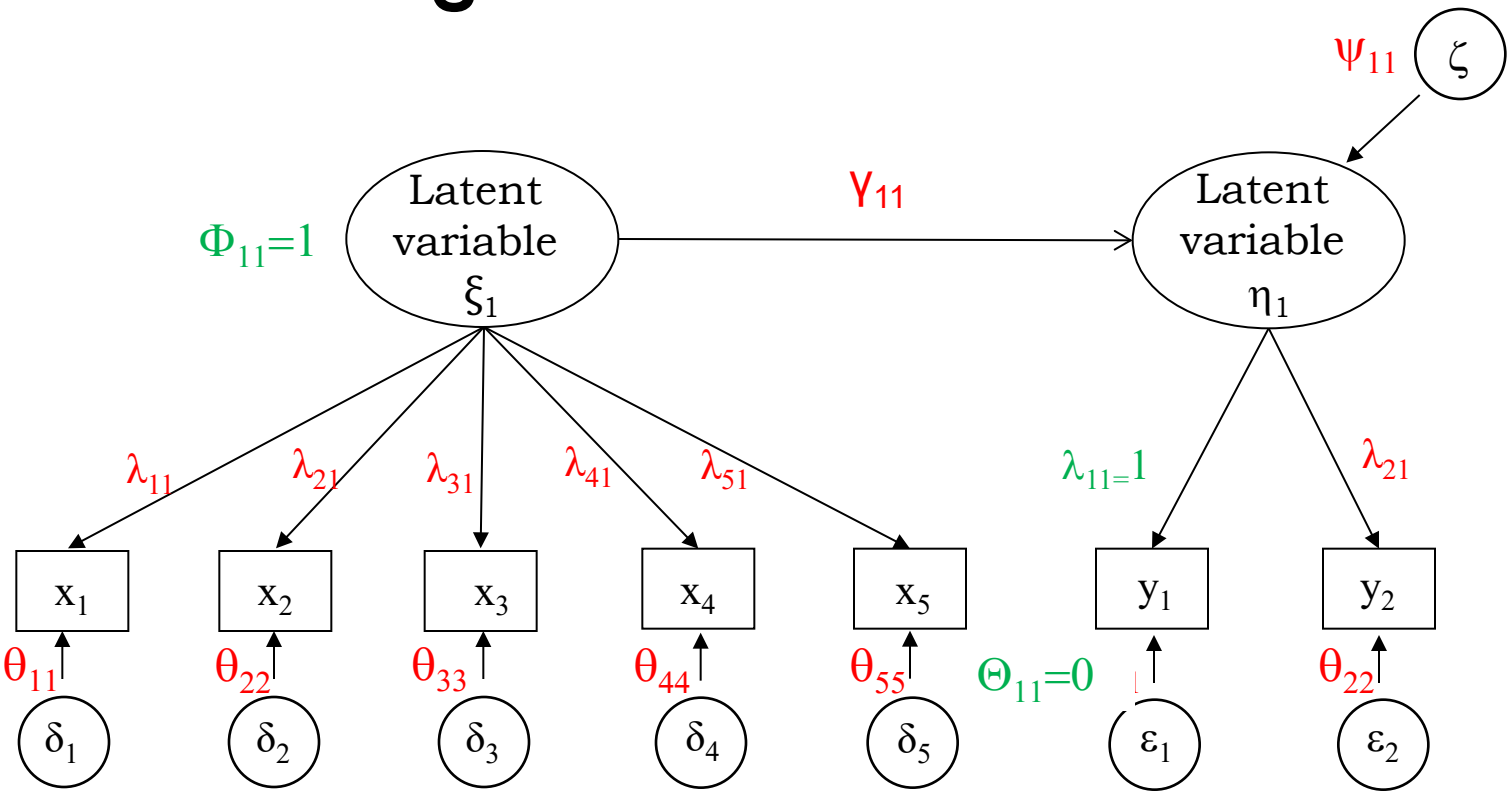
The to-be-investigated model

Which parameters need to be fixed?



The to-be-investigated model

What are the degrees of freedom ?



… for the whole model ? 14

… for the *first* model of measurement ? 5

… for the *second* model of measurement ? 0

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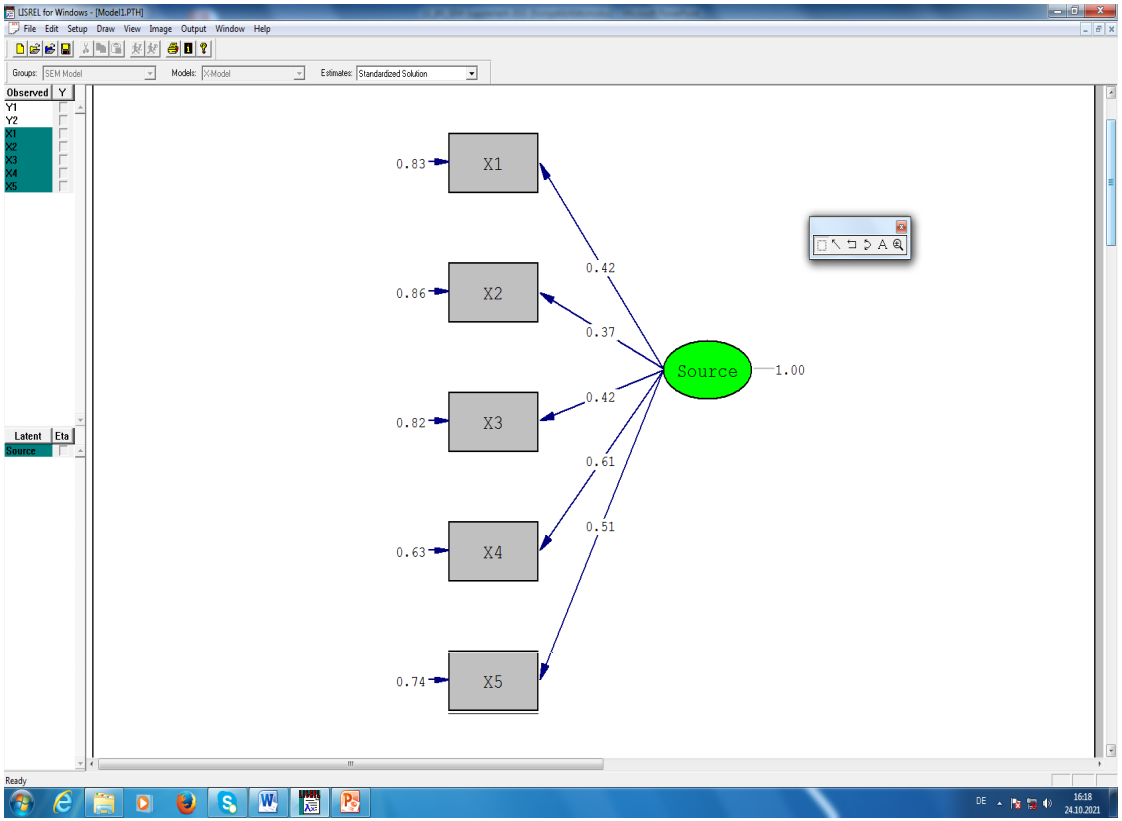
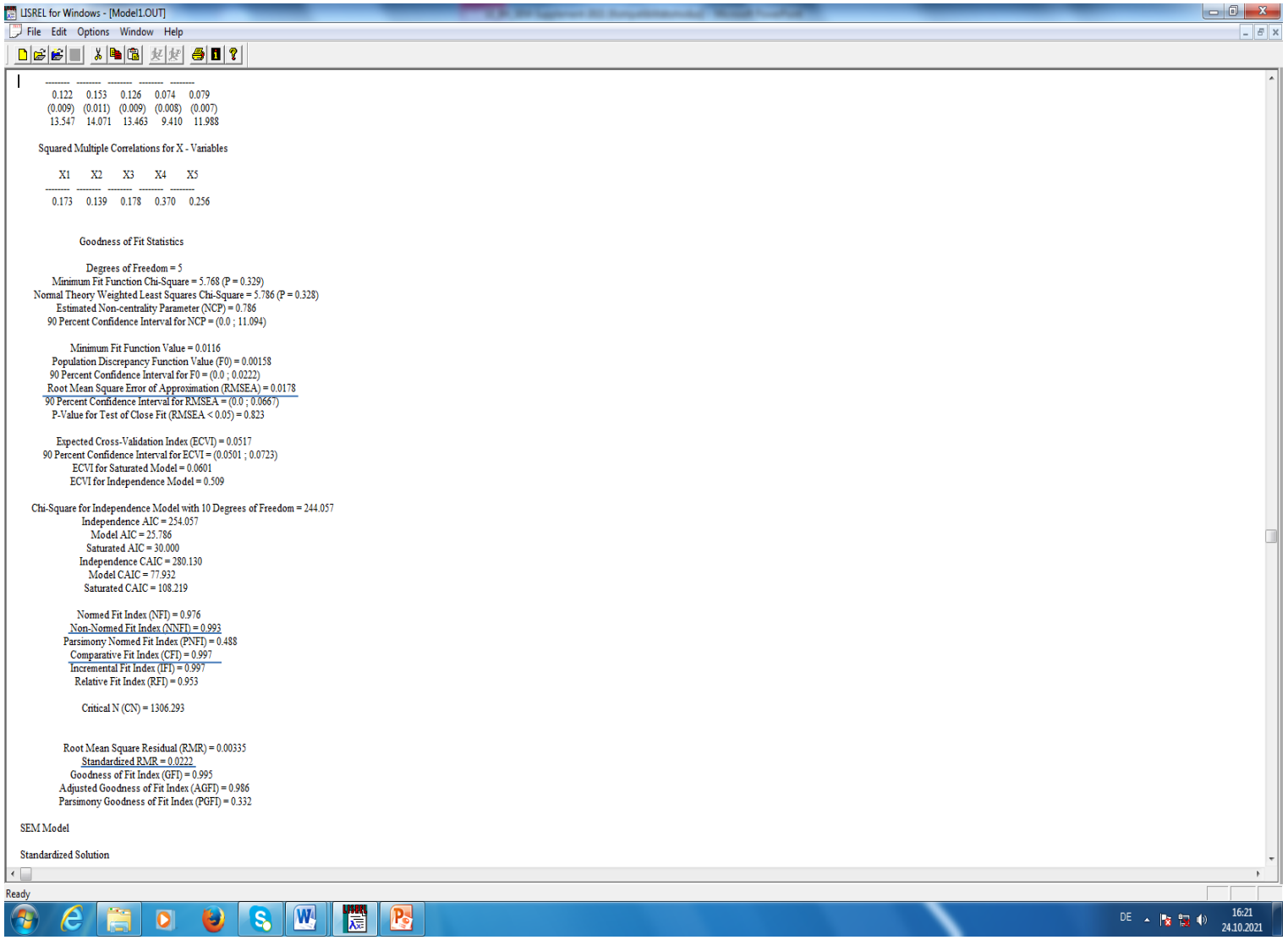
Check of measurement model 1



Check of measurement model 1



Outline

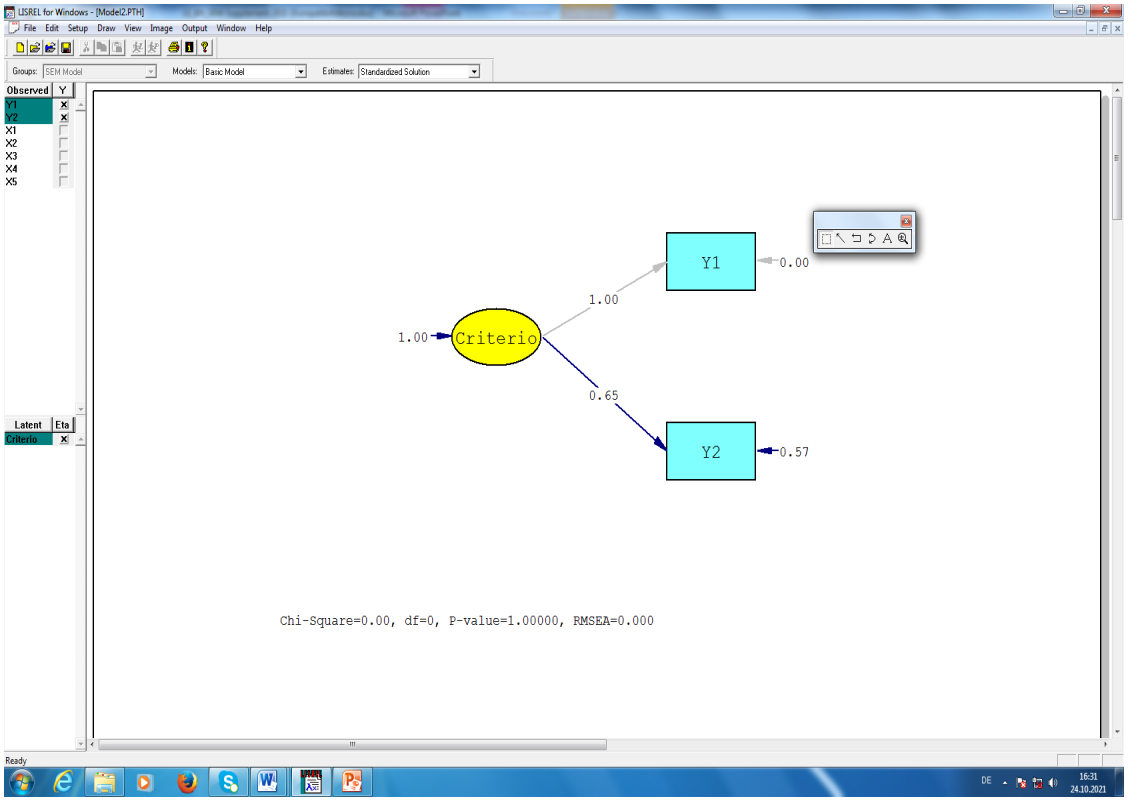
1. The model

2. Check of measurement model 1

3. Check of measurement model 2

4. Check of the complete model

Check of measurement model 2



Check of measurement model 2

Outline

1. The model

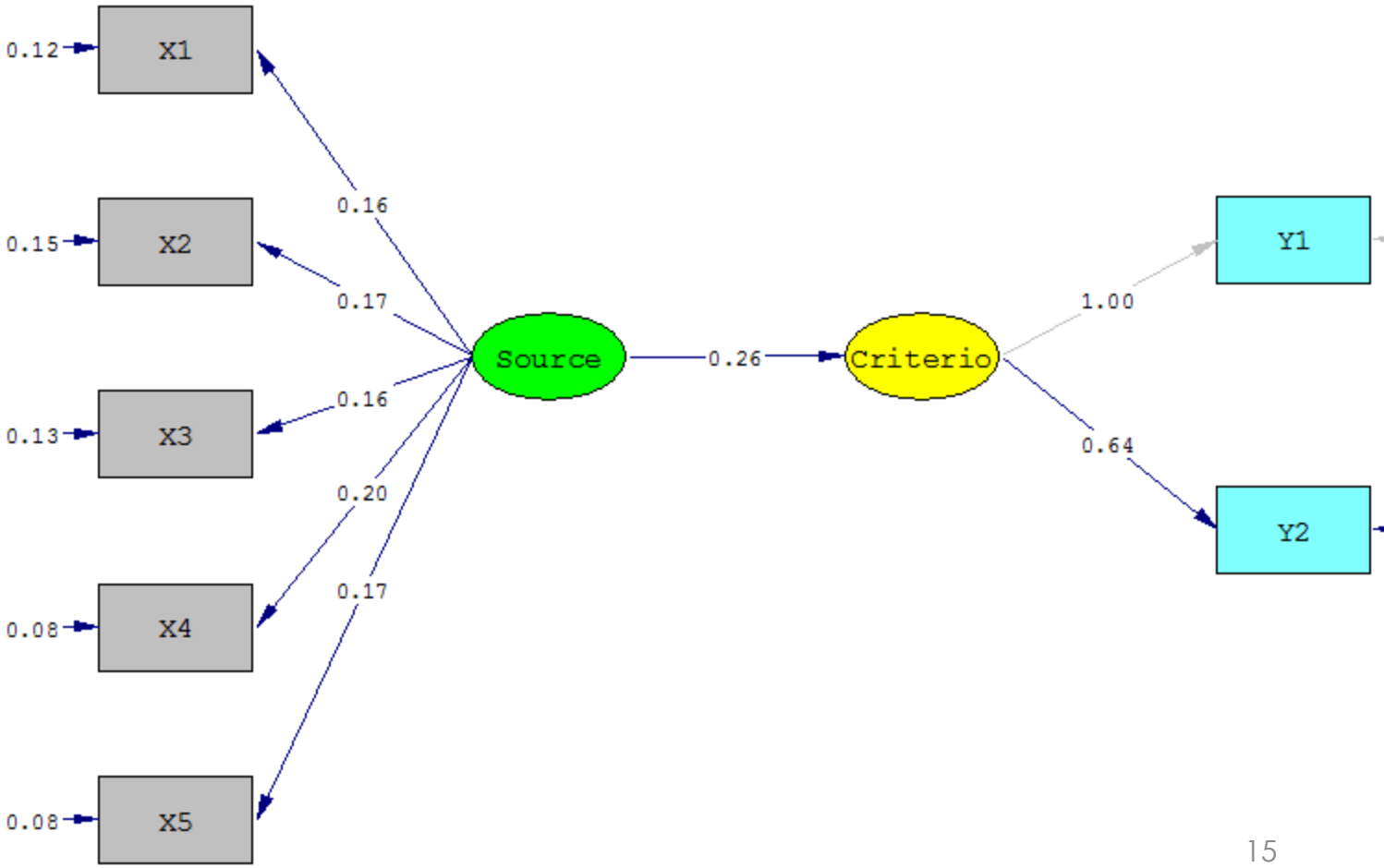
2. Check of measurement model 1

3. Check of measurement model 2

4. Check of the complete model

Check of complete model

Do not start with this output!



LISREL for Windows - [FirstFullSEM.OUT]

File Edit Options Window Help

Goodness of Fit Statistics

Degrees of Freedom = 14
Minimum Fit Function Chi-Square = 19.389 (P = 0.151)
Normal Theory Weighted Least Squares Chi-Square = 19.464 (P = 0.148)
Estimated Non-centrality Parameter (NCP) = 5.464
90 Percent Confidence Interval for NCP = (0.0 ; 21.242)

Minimum Fit Function Value = 0.0389
Population Discrepancy Function Value (F0) = 0.0110
90 Percent Confidence Interval for F0 = (0.0 ; 0.0426)
Root Mean Square Error of Approximation (RMSEA) = 0.0280
90 Percent Confidence Interval for RMSEA = (0.0 ; 0.0551)
P-Value for Test of Close Fit (RMSEA < 0.05) = 0.901

Expected Cross-Validation Index (ECVI) = 0.0951
90 Percent Confidence Interval for ECVI = (0.0842 ; 0.127)
ECVI for Saturated Model = 0.112
ECVI for Independence Model = 1.466

Chi-Square for Independence Model with 21 Degrees of Freedom = 717.733
Independence AIC = 731.733
Model AIC = 47.464
Saturated AIC = 56.000
Independence CAIC = 768.236
Model CAIC = 120.469
Saturated CAIC = 202.009

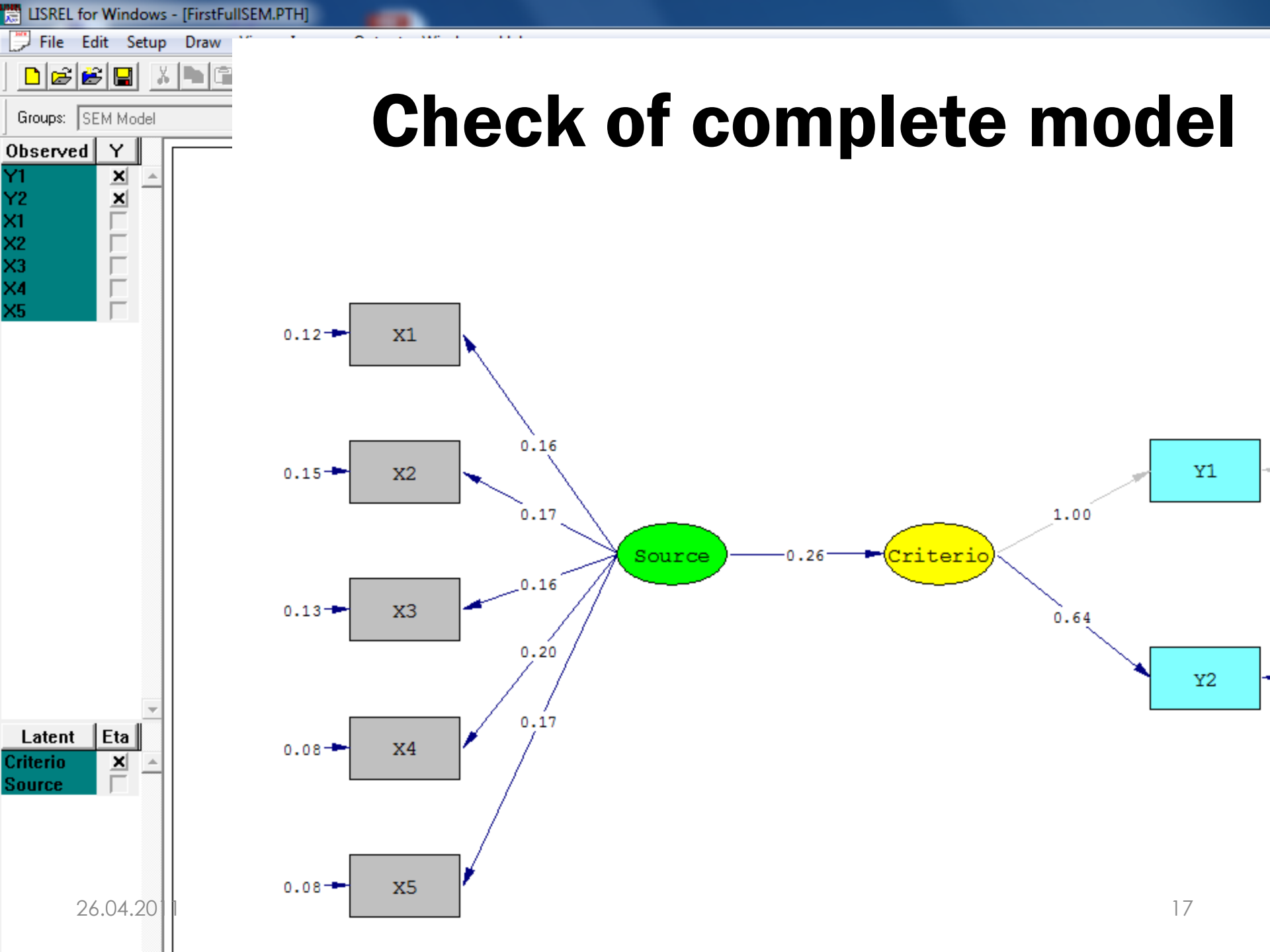
Normed Fit Index (NFI) = 0.973
Non-Normed Fit Index (NNFI) = 0.988
Parsimony Normed Fit Index (PNFI) = 0.649
Comparative Fit Index (CFI) = 0.992
Incremental Fit Index (IFI) = 0.992
Relative Fit Index (RFI) = 0.959

Critical N (CN) = 751.071

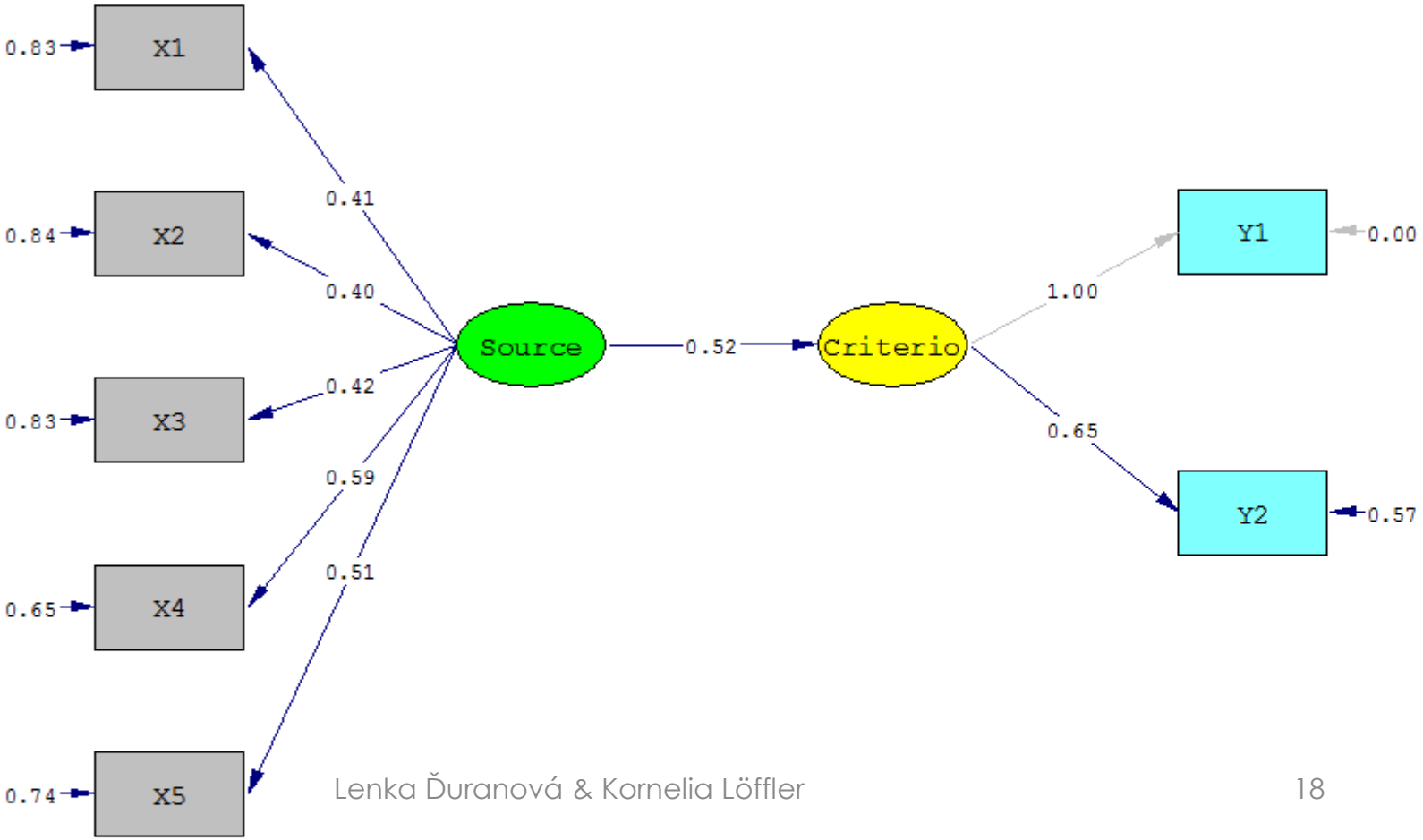
Root Mean Square Residual (RMR) = 0.00540
Standardized RMR = 0.0300
Goodness of Fit Index (GFI) = 0.989

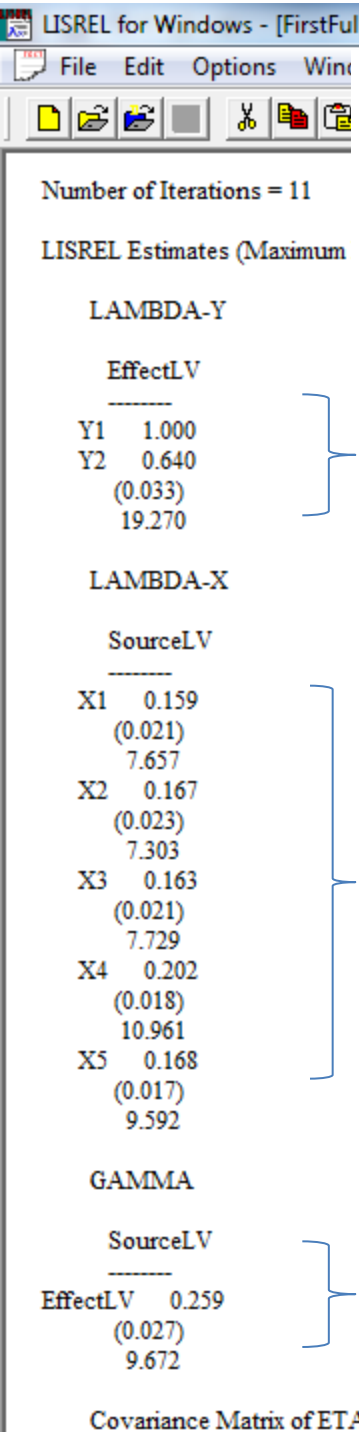
Check ...

Check of complete model



Check of complete model





Check of complete model

Factor loadings on endogenous latent variable

Factor loadings on exogenous latent variable

Gamma coefficient

Check of complete model

LISREL for Windows - [FirstFu

File Edit Options Win

SEM Model

Completely Standardized Solution

LAMBDA-Y

	Criterio
Y1	1.000
Y2	0.653

LAMBDA-X

	Source
X1	0.414
X2	0.395
X3	0.417
X4	0.589
X5	0.515

GAMMA

	Source
Criterio	0.519

Correlation Matrix of ETA and KSI

	Criterio	Source
Criterio	1.000	
Source	0.519	1.000

PSI

Criterio
0.731

The end