Model selection based on AICc:

K AICc Delta\_AICc AICcWt Cum.Wt LL

model3 9 1325.06 0.00 0.46 0.46 -653.27

model2 10 1326.10 1.05 0.27 0.73 -652.68

model1 10 1326.10 1.05 0.27 1.00 -652.68

Warning message:

In aictab.lavaan(list(lvmod.1.fit, lvmod.2.fit, lvmod.3.fit), c("model1", :

Check model structure carefully as some models may be redundant

> semPaths(lvmod.3.fit, what = 'std', layout = 'tree', residuals = FALSE,

+ edge.label.cex = 1)

> summary(lvmod.3.fit, rsq=T, standardized=T,fit.measures = TRUE)

lavaan 0.6.16 ended normally after 1 iteration

Estimator ML

Optimization method NLMINB

Number of model parameters 9

Number of observations 121

Model Test User Model:

Test statistic 1.170

Degrees of freedom 1

P-value (Chi-square) 0.279

Model Test Baseline Model:

Test statistic 64.151

Degrees of freedom 6

P-value 0.000

User Model versus Baseline Model:

Comparative Fit Index (CFI) 0.997

Tucker-Lewis Index (TLI) 0.982

Loglikelihood and Information Criteria:

Loglikelihood user model (H0) -653.267

Loglikelihood unrestricted model (H1) -652.682

Akaike (AIC) 1324.535

Bayesian (BIC) 1349.697

Sample-size adjusted Bayesian (SABIC) 1321.242

Root Mean Square Error of Approximation:

RMSEA 0.037

90 Percent confidence interval - lower 0.000

90 Percent confidence interval - upper 0.248

P-value H\_0: RMSEA <= 0.050 0.349

P-value H\_0: RMSEA >= 0.080 0.555

Standardized Root Mean Square Residual:

SRMR 0.027

Parameter Estimates:

Standard errors Standard

Information Expected

Information saturated (h1) model Structured

Regressions:

Estimate Std.Err z-value P(>|z|) Std.lv Std.all

Micro.rich ~

pre.AI -0.183 0.089 -2.049 0.041 -0.183 -0.183

Micro.net ~

pre.AI -0.448 0.078 -5.713 0.000 -0.448 -0.448

Micro.rich 0.216 0.078 2.751 0.006 0.216 0.216

Micro.mass ~

pre.AI -0.353 0.096 -3.660 0.000 -0.353 -0.353

Micro.net 0.049 0.096 0.508 0.611 0.049 0.049

Variances:

Estimate Std.Err z-value P(>|z|) Std.lv Std.all

.Micro.rich 0.958 0.123 7.778 0.000 0.958 0.966

.Micro.net 0.712 0.092 7.778 0.000 0.712 0.718

.Micro.mass 0.849 0.109 7.778 0.000 0.849 0.856

pre.AI 0.992 0.128 7.778 0.000 0.992 1.000

R-Square:

Estimate

Micro.rich 0.034

Micro.net 0.282

Micro.mass 0.144