

Steps to create a Mplus LOOP plot in R:

1. Run Mplus on your data to create the appropriate .gh5 file. Following are input excerpts for User's Guide ex 3.18 as an example:

```
DEFINE: xz = x*z;  
  
MODEL: y ON m (b)  
  
z;  
  
m ON x (gamma1)  
  
xz (gamma2)  
  
z;  
  
MODEL CONSTRAINT:  
  
LOOP(mod, -2, 2, 0.1);  
  
PLOT(indirect);  
  
indirect = b*(gamma1+gamma2*mod);  
  
PLOT: TYPE = PLOT2;
```

2. In R, load the mplus.R source.
  - a. If you do not already have R, download R for Windows from CRAN at <http://cran.r-project.org/bin/windows/base/> and follow the installation instructions.
  - b. Download the R source code, mplus.R from <http://www.statmodel.com/mplus-R/>
  - c. Open R. In Windows, go to Start -> Programs -> R.
  - d. Under the File menu, choose the "Source R code..." option. Browse to the folder with the mplus.R source code.

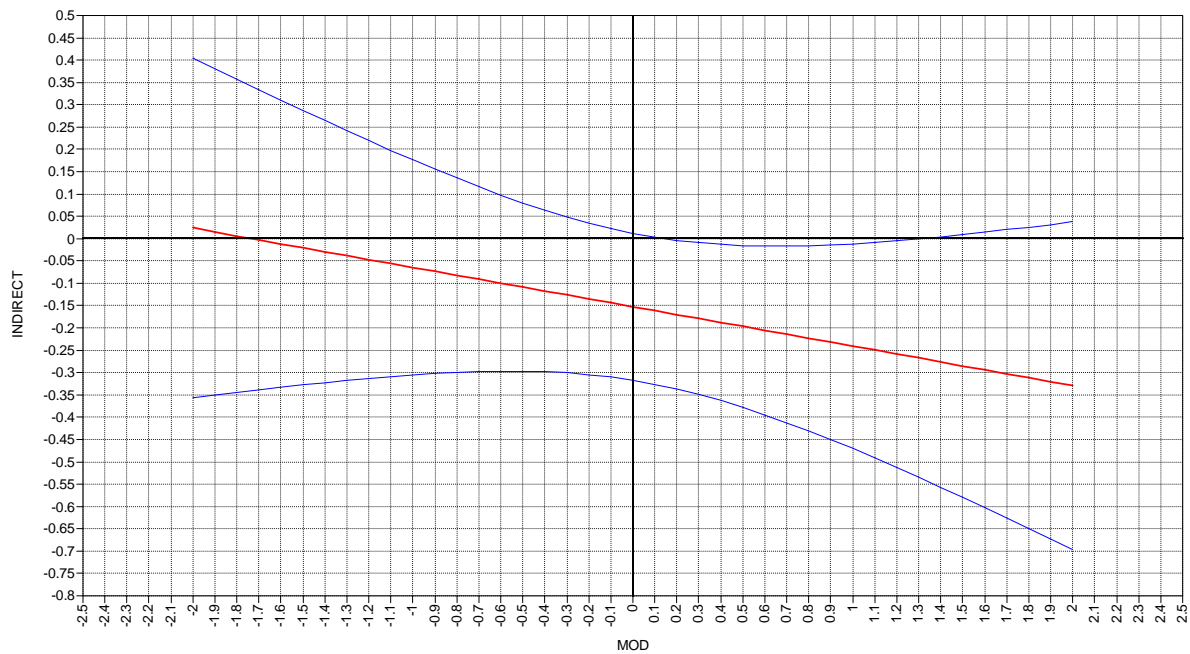
Select the mplus.R file and click on the Open button. In the R Console window, the following lines will appear:

```
> source("C:\\MplusWork\\Develop\\Rdev\\mplus.R")  
  
[1] "Loaded rhdf5 package"
```

3. Set the directory to the location of the .gh5 file you will be working with.

- a. Select FILE -> "Change dir...".
  - b. Browse to the location of .gh5 file.
  - c. Press OK.
4. In the R Console window, create the loop plot with the following command:
- ```
> mplus.plot.loop('your_filename.gh5','indirect')
```

LOOP plot (using example 3.18) in Mplus:



LOOP plot (using example 3.18) in R:

**Loop plot for INDIRECT**

