Q: How you get the Mplus PX parameterization in factor analysis as discussed in the Bayes Advantages paper, Section 2?

Asparouhov, T. & Muthén, B. (2010). Bayesian analysis of latent variable models using Mplus. Technical Report. Version 4.

A: You do it using model constraints, see below:

```
Mplus VERSION 6
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05/13/2010   3:48 PM

INPUT INSTRUCTIONS

  MONTECARLO:  NAMES ARE y1-y5;
               NOBS = 50;
               NREP = 100;

  ANALYSIS:
             ESTIMATOR = BAYES; process=2; fbiter=3000;

  model montecarlo:
  y1-y5*1;
  eta by y1-y5*1.0;
  eta@1;

  model:
  y1-y5*1;
  eta by y1@1
         y2-y5*1.0 (q2-q5);
  eta*1 (v);

  model constraint:
  new (l1-l30*1);
  l1=sqrt(v);
  l2=q2*sqrt(v);
  l3=q3*sqrt(v);
  l4=q4*sqrt(v);
  l5=q5*sqrt(v);

  output: tech9;
```