- For each MCMC iteration r = 1, 2, ...
 - 1. Nodes $c_j \in \{1, \ldots, M\}, \ j = 1, \ldots, P$ run CSMC, the rest run SMC 2. Each node m returns a marginal likelihood estimate \hat{Z}_m and
 - candidate retained particle $x'_{1:T,m}$
 - 3. A loop of Gibbs updates is applied to the retained particle indices:

Gibbs updates is applied to the retained particle indices:
$$\hat{Z}_m \mathbb{1}_m t_s$$

- $\mathbb{P}(c_j = m | c_{1:P\setminus j}) = \frac{\hat{Z}_m \mathbb{1}_{m \notin c_{1:P\setminus j}}}{\sum_{n=1}^M \hat{Z}_n \mathbb{1}_{n \notin c_{1:P\setminus j}}}$